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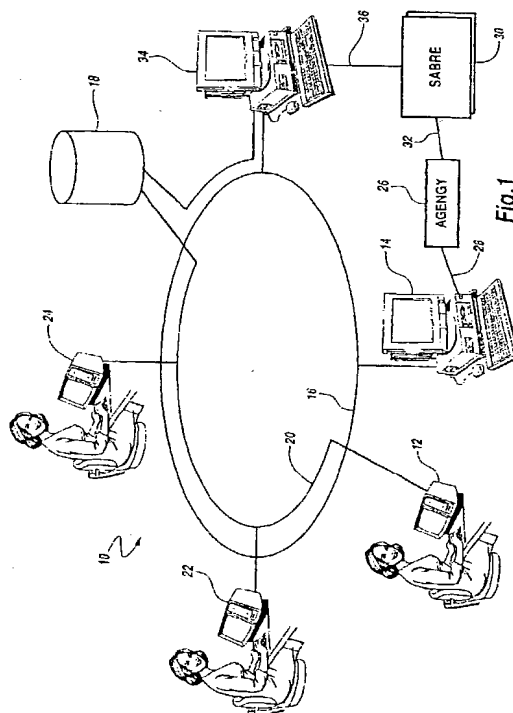
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(54) System for corporate travel planning and management

(57) A system for corporate travel planning, expense reporting and travel management comprises a computerised reservation system (30), a relational database server computer (18) adapted to be linked to the reservation system (30) and a travel planning, expense reporting and travel management system (38) resident on a personal computer (22) and providing a graphical user interface for communication between a user of the personal computer, the system (38) and the relational database server (18).



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Description

TECHNICAL FIELD OF THE INVENTION

This invention relates in general to a travel and transportation information system, and in particular to, a client-server system that communicates with an airline Computerized Reservation System and places travel information directly in the hands of the corporate traveler.

BACKGROUND OF THE INVENTION

Historically, corporate travel has often escaped the close scrutiny by management that was used for every other function of the corporation. Travel dollars were seen as a necessary evil and were spent until the corporate balance sheet showed more problem than promise. Recently, corporations have aggressively examined every process and paradigm to re-engineer and transform themselves into a lean and highly-productive corporate machine that can support success and growth. As a result, travel dollars became one of the first expenses tightly controlled or cut.

Given that approximately \$130 billion were spent on travel in 1994, Corporate Travel Managers are examining and implementing a variety of solutions to manage costs and change the aura that typically surrounds corporate travel expenses. For example, corporations have consolidated travel management in credit card services, published corporate travel policies, and mandated the use of preferred travel providers.

Corporate policies, however, that force a frequent traveler to sit through a two hour connection or stay in a less than mid-line hotel off the beaten path have driven the typical frequent traveler to come up with creative ways to circumvent the travel policy in order to meet their own personal requirements. Frequent travelers are bypassing policy at every turn to maintain their productivity and to take advantage of any perks that compensate them for long hours away from home. This scenario compounds the already huge information deficit Corporate Travel Managers are struggling to resolve including travelers' circumvention of corporate policy which results in travel data being totally lost.

From a corporate standpoint, travel has an impact on the traveler, the Corporate Travel Manager, the Department Manager, Accounts Payable and the Corporation itself. The traveler seeks an easy and fast way to arrange travel. Under conventional methods however, the traveler must arrange trips through a series of telephone conversations with a travel management firm or agency. In addition, the traveler seeks an automated expense reporting system. Present methods which combine manual and automated forms may require repetitive data input of previously requested travel information for report presentation. In addition, the approval and reimbursement of expenses is typically manual.

The Corporate Travel Manager needs a true sum-

mary of the total corporate travel expenses by category. Presently, the Corporate Travel Manager may estimate travel expenses and category breakdowns based upon report information from Travel Management Firms, corporate credit card companies, or preferred vendors. These estimates may be inaccurate, however, if the traveler made on-the-road trip changes, did not comply with usage of corporate travel agencies or credit card, or stayed in a hotel that is not the same as the one which was booked. Corporate Travel Managers must also stay informed as to the status of preferred vendor agreements. Historically, summaries of the corporation's actual market share performance was provided by travel management firms or the preferred vendor. These summaries, however, were typically not provided on a timely basis, provided minimal information on a pre-travel basis, and provided no method for self-validation of performance.

Department managers need pre-travel reporting of travel expenses and possible violations of travel policy. Presently, random manual notification of policy violations is provided by travel management firms to the Corporate Travel Manager. Typically, this notification is insufficient or not timely enough to allow Department Managers to enforce corporate policy on a pre-travel basis. Department Managers also desire an automated expense reporting system. Current methods require manual processing of approval and reimbursements of expenses by Department Managers.

Accounts Payable desires an automated processing system for expense reports. Current methods require manual auditing, posting, and payments of expense reports.

Many of the limitations on the current corporate travel planning and management systems stem from the corporate traveler's dependence on travel management firms. Travel management firms currently function as the central hub for all travel service and information regarding travel for the corporate traveler. There is a total reliance on the travel management firm by the travelers for trip planning and management as well as by the Corporate Travel Managers for summary reporting.

Therefore, a need has arisen for a corporate travel planning and management system which operates on a corporate database environment that allows automated travel planning from a corporate traveler's desktop, pre-travel decision support to inform a corporation of planned travel expenditures before corporate dollars are spent, and automated expense reporting.

SUMMARY

The present invention comprises a client-server system for corporate travel planning and management which operates on a corporate database environment, comprising desktop LAN software as well as a Travel Planning module and a Travel Expense Reporting module which together provide solutions for two of the man-

ual and most costly areas of corporate business travel management. The two modules may coexist as fully-functional, stand-alone modules or be integrated into a Travel Decision Maker module creating a comprehensive travel management system.

The Travel Planning module of the present invention provides the corporate traveler with a desktop system that provides a graphical user interface to real-time Computerized Reservation Service (CRS) Data for efficient travel planning and booking. The system targets two of the most prevalent types of corporate trips, the simple 2-4 segment trips that include air, car, and hotel accommodations as well as the common or repeat trip, estimated at 40% - 70% of all corporate travel.

The Travel Planning module interacts with locally stored traveler and corporate profiles in a relational database that function as filters against real-time CRS Data output to ensure the appropriate corporate vendor preferences are displayed to and booked by the corporate traveler. The present invention enables the traveler to complete the entire booking process, which results in the creation of a Personal Name Record (PNR), or to create a PNR with a booking request which a travel agency completes.

The Travel Expense Reporting module of the present invention provides to the traveler's desktop a system that automates the preparation of travel expense reports. The system also automates the routing of expense report to assure appropriate authorization, accurate expense reimbursement and timely posting of expense totals to a corporation's general ledger.

In addition, the present invention provides automated summary reporting of the actual costs of corporate travel. The reporting is enabled by the relational database, which resides in the corporate environment, that tracks all data from the expense report process and provides comparisons to yearly vendor market share contracts and budgets. A number of automated reports are provided to both the Corporate Travel Manager and Department-level Managers to enable timely and proactive management of corporate resources.

The Travel Decision Maker module of the present invention incorporates information that results from the Trip Planning and Expense Reporting modules to enable comprehensive pre-travel and post-travel reporting for Corporate Travel Managers and Department Managers. The Pre-travel and post-travel information that feeds the Travel Decision Makers module is integrated into a relational database via the travel planning and expense reporting processes.

BRIEF DESCRIPTION OF THE DRAWINGS

For a more complete understanding of the present invention, including its features and advantages, reference is now made to the detailed description, taken in conjunction with the accompanying drawings of which:

Fig. 1 is a simplified diagram of the platform of the present invention as it may look in a corporation; Fig. 2 is a simplified block diagram of the modules of the present invention;

Fig. 3 is a simplified block diagram of the system of the present invention;

Figs. 4 is more detailed block diagrams of the trip planning system of Fig. 3;

Figs. 5 is more detailed block diagrams of the update static tables system of Fig. 3;

Figs. 6 is more detailed block diagrams of the update static tables system of Fig. 3;

Figs. 7 is more detailed block diagrams of the interface manager system of Fig. 3;

Figs. 8 is more detailed block diagrams of the pre-trip management system of Fig. 3;

Figs. 9 is more detailed block diagrams of the utilities function system of Fig. 3;

Figs. 10 is more detailed block diagrams of the expense reporting system of Fig. 3;

Figs. 11 is more detailed block diagrams of the post-trip management system of Fig. 3;

Figs. 12 is more detailed block diagrams of the post-trip management system of Fig. 3;

Figs. 13 is more detailed block diagrams of the post-trip management system of Fig. 3;

Fig. 14, consisting of 14A-14X, is a series of graphical user interfaces for scheduling a trip;

Fig. 15, consisting of 15A-15G, is a series of graphical user interfaces for scheduling repeat trips; and

Fig. 16, consisting of 16A-16M, is a series of graphical user interfaces for creating an expense report.

DETAILED DESCRIPTION OF THE INVENTION

The client-server system of the present invention for corporate travel planning and management 10 is shown in simplified platform diagram form in Fig. 1. The client interface of the present invention may be deployed on any conventional personal computer or client workstation 12, running a suitable operating system such as Windows, OS/2, or Macintosh. The client workstation 12 is in communication with an E-mail server 14 via a conventional network connection 16. The E-mail system may operate any standard E-mail protocol such as VIM or MAPI. The client workstation 12 is in communication with a corporate database server 18 via network connection 20. The corporate database server 18 may operate any open relational database environment such as Oracle or Sybase. The corporate database server 18 may be a pentium (NT), or Unix having 32-64 MB of memory.

A department manager workstation 22 is in communication with the E-mail server 14 via network connection 16 and the corporate database server 18 via the network connection 20. The department manager workstation 22 may be any conventional personal computer with a suitable operating system as specified above.

The travel manager workstation 24 is in communication with the E-mail server 14 via network connection 16 and in communication with the corporate database served 18 via the network connection 20. The travel manager workstation 24 may be a conventional 486 personal computer having 16 MB RAM of memory.

The E-mail server 14 is in communication with any conventional travel agency 26 via a telecommunication link 28. The telecommunication link 28 preferably consists of high speed modems and telephone lines or the equivalent thereof. The travel agency 26 is in communication with any airline computerized reservation system such as American Airlines' SABRE Computerized Reservation System 30 via a telecommunication link 32. The corporate database server 18 communicates with the gateway 34 using a TCP/IP sockets interface, which is the industry standard cross-platform interprocess communication protocol. The gateway 34 will provide a Generalized Data Stream (GDS) style request and reply interface with the CRS 30 via telecommunication link 36.

A simplified block diagram of the corporate travel planning and management system generally designated 38 is represented in Fig. 2. The corporate centric client-server system 38 comprises Travel Planning module 40, Travel Expense Reporting module 42, and Travel Decision Maker module 44. From the client workstation 12, the Travel Planning module 40 receives and sends availability, fare and booking data 46 from the CRS 30. The Travel Planning module 40 receives policies and preferences data 48 from the corporate database 18 and sends authorization request data 50 to the corporate database 18. The Travel Expense Reporting module 42 receives trip and card data 52 and expense policy data 54 from the corporate database 18. The Travel Expense Reporting module 42 sends expense detail data 56 and summary expense totals 58 to the corporate database 18. The Travel Decision Maker module 44 receives pre-trip booking data 60 and actual expenses data 62 from the corporate database 18. The Travel Decision Maker module 44 receives GDS data 64 from the CRS 30. The Travel Decision Maker module 44 sends trip record data 66 to the corporate database 18.

A simplified block diagram of the functional elements of the corporate centric client-server system 38 is depicted in Fig. 3. The functional elements comprise trip planning 68, update static tables 70, interface manager 72, pre-trip management 74, utility functions 76, security 78, expense reporting 80, and post-trip management 82.

Turning now to Fig. 4, the trip planning 68 of Fig. 3 is described in greater detail. The first step in trip planning 68 is a trip request process 84. Entry into the trip request process 84 can be done by either the corporate traveler 86 or by a corporate travel arranger (not pictured). The trip request process 84 may also be back-filled through a CRS PNR download if the trip originated with a telephone request. The Corporate traveler 86 must enter an employee number 88 and the trip param-

eters 90 during the trip request process 84. After the trip request process 84 has been initiated, the employee record data 92 is retrieved from the employee profile database 94 located in the corporate database 18. The corporate travel policy data 96 from the corporate travel policy database 98 located in the corporate database 18 is also downloaded during the trip request process 84. The employee profile database 94 includes information such as seat preferences, special meals, frequent flier, account numbers, hotels, car rental, connecting flights, and airline equipment preferences.

The next step in trip planning 68 is the build itinerary process 100. The build itinerary process 100 allows the traveler 86 to enter basic trip parameters and either request a booking or make a booking with direct access to CRS 30 availability and fare information or allows the traveler 86 to pull up saved, repeat itinerary data 102 from the repeat itinerary file database 104 and provide a new departure date and autofilled trip parameters for use in an availability display. For routine trips, the traveler 86 may fill the trip parameters section from stored repeat itinerary data 106 and subsequently add, modify or delete segments for the itinerary of a specific trip.

For standard or non-routine trips, the build itinerary process 100 allows the traveler 86 to enter basic trip parameters such as departure date, time and city, arrival date, time and city, and hotel and car requirements. The traveler 86 will input in a batch all the travel requirements (air, hotel, car) grouped by segment. The build itinerary process 100 via communication with CRS 30 displays flight availability data 108, fare data 110 and highlights preferred vendor data from the corporate travel policy 112. The traveler 86 is able to make only one selection from the availability data 108 for each segment. The traveler 86 can change selection if desired using the display window. As selections are made, an in-process itinerary will be built and displayed to the traveler 86 showing information as it is selected or adding to what has been previously selected. The in-process itinerary will display the associated cost of each item as well as a running total of the entire trip, including air, hotel, car and a grand total.

From the availability data 108, the traveler 86 may request a list of preferred hotels in the destination city. The display will highlight which hotels can be booked via CRS 30 access and also those that would need to be contacted directly. The traveler 86 can request availability at one or more of the preferred hotels. The build itinerary process 100 also allows display of preferred chains as well as preferred hotels specified to a city location which are stored in the local property table 114.

The traveler 86 may request a list of preferred rental car vendors through CRS 30. Special negotiated rates for a vendor in a specific city stored in local car table 116, when present, will override the data returned from CRS 30. The build itinerary process 100 returns a queued PNR 118 including air, hotel and car requirements to CRS 30.

The trip planning process 68 further comprises the authorized trip request process 120. The authorized trip request process 120 provides for the routing of the trip request form to the appropriate authorizer (not pictured) and provides the authorization utility. Once authorized, the traveler 86 is notified of the authorization electronically. Actual routing of the trip request form is determined in the authorization table 122 and the travel policy table 98. The routing may be to a specific person or a specific manager position. The trip request form is electronically signed for the traveler 86 before it is routed for approval. The approver is able to review a version of the trip request form that allows the approver to view the completed itinerary, the cost, the purpose for the trip and the remarks fields. The approver is also able to review the traveler's 86 request for a travel cash advance.

If the approver does not approve the request, the authorized trip request process 120 requires that the approver input a description of the reason for disapproval. The trip request is then routed back to the originator of the request. If the originator was a travel arranger, a copy of the disapproval will be sent to the traveler 86. If the approver does approve the request, it is routed to the next processing step, for example, travel agency 26. The trip request form is electronically signed for the approver whether the request is approved or disapproved.

Another feature of the trip planning 68 is the cancel booking process 124 which allows the traveler 86 a quick means of cancelling a booked trip from the client workstation 12. The cancelled booking process 124 displays an abbreviated list of all booked trip records whose departure date is equal to or greater than today's system date. The traveler 86 receives stored trip data 126 from the trip table 128 and may select a stored trip to cancel from the list. Once a cancelled trip button is activated on the screen, the traveler 86 may send cancellation data 130 to the CRS 30. A response from the CRS 30 will be displayed back to the traveler 86 confirming the cancellation is complete.

Now referring to Fig. 5, a block diagram representing the update static tables process 70 of Fig. 3 is presented. All of the corporation's static tables are presumably part of the corporate centric client-server system 38 implementation process. Each corporation defines the static tables in order to start using the corporate centric client-server system 38. Typically, a system administrator inputs the update travel policy data 132, the update exception codes data 134, the update projects data 136, the update reason codes data 138, the update GL accounts data 140, the update department information data 142, the update category data 144, the update budget figures data 146, the update accounting periods data 148, the update expense policy data 150, the update employment profile data 152, the update company profile data 154, the travel policy table 98, the exception codes table 158, the project table 160, the validation error codes table 162, the GL accounts table 164, the department table 166, the expense categories table 168,

the budget figures table 170, the accounting period table 172, the expense policy table 174, the employee profile table 94, and the company profile table 178, each of which are part of the larger corporate database 18. All static tables 70 have the ability to add new records, update existing records, and delete unused records.

Now referring to Fig. 6, the system administrator may update the static table 70 by inputting the update airline agreements data 180, the update carrier codes data 182, the update city/airport codes data 184, the update currency exchange rates data 186, the update car table data 190, the update property table data 192, the update chain codes data 194, the update currency codes data 196, and the update other codes data 198, respectively updating the airline agreements table 200, the carrier codes table 202, the city/airport codes table 204, the currency exchange table 206, the local car table 116, the local property table 114, the chain code table 212, the currency code table 214, and the other codes table 216, each of which are part of the corporate database 18.

Referring now to Fig. 7, a block diagram detailing the interface manager 72 of Fig. 3 is depicted. The interface manager 72 involves processing CRS 30 data which consists of five distinct processes: the drive GDS query process 218, the pull apart PNR process 220, the validate data fields process 222, the check policy process 224, and the modify trip record process 226. The drive GDS query process 218 resides on the CRS Supersaver 34 and serves to retrieve the GDS data 64 for each PNR. After the GDS data 64 is retrieved, the GDS data 64 is forwarded to the corporate database 18 where the parsing of the stream is performed and the trip is inserted into the interface manager table 228.

The pull-apart PNR process 220 reads GDS data 64 and maps the CRS elements to the interface manager table 228.

The validate data fields process 222 ensures the integrity of the data being inserted into the trip table 128. An incomplete PNR or a PNR containing a value that cannot be found in the static tables 70 will be rejected by the validate datafields process 222 and the queued for reprocessing through CRS 30. The PNR's which pass the validation data fields process 222 are assigned a unique trip number that does not already exist in the trip table 128 and such valid trips are inserted into the trip table 128.

The check policy process 224 has a hierarchical order of application, for example, project policy takes precedence over employee policy and a negotiated hotel rate takes precedence over a company-preferred vendor. In the check policy process 224, each policy violation is flagged and the violation is assigned a code type based upon the nature of the violation. Depending upon how the violation is set up in the policy record, the violation will either simply be an item on a report, or it may be queued to an individual specified in the employee or project record for approval or rejection. The status of the

violation is stored within the policy exception table 230. Data from trip table 128 is compared against data from the travel policy table 98, the local car table 116, the local property table 114, and the airline agreement table 200. If the check policy process 224 finds any violations, a code from the exception code table 158 is applied and then stored in the policy exceptions table 230.

The modify trip record process 226 allows the traveler 86 to maintain non-purged PNR's in the interface manager table 228. Maintenance may occur at two levels, a high-level delete of detail older than a specified date, or a modification utility which allows fixes to fields such as project I.D. which, once repaired, will enable the PNR to populate the trip table 128.

Now referring to Fig. 8, a detailed block diagram of the pre-trip management 74 of Fig. 3 is pictured. The analyze vendor goal share process 232 imports data from the local car table 116, the airline agreements table 200, the local property table 114, and the trip table 128. The analyze vendor goal share process 232 analyzes each preferred airline vendor on a specified city pair and divides the number of segments booked on that airline by the total number of segments booked and compares the obtained percentage with the share agreement for that airline.

The review and approve exceptions process 234 imports data from the trip table 128, the exception table 238, and the department roll-up table 236 and creates exception reporting for the overall corporation, an overall cost center, an individual, trend analysis, year-to-date totals, and chronic policy violators.

The destination analysis by date process 240 uses data from the trip table 128 and reports to the corporate travel manager all destination cities where multiple travelers 86 will be traveling on a given date or date range for the purpose of managing opportunities for obtaining zone fares or discounted group hotel rates.

The analyze booked versus budgeted travel and entertainment expense process 242 imports data from the trip table 128 and travel and expense budget table 244 to show projected cost of booked trips, a comparison between booked and budgeted expenses, and a trend analysis for forecasting if the travel budget will be met based upon trends.

The query unauthorized trips process 246 imports data from the department roll-up table 236 and trip table 128 to provide department managers or corporate travel managers information regarding unauthorized trips that require either authorization or cancellation. Department managers or Corporate Travel Managers may either cancel or authorize trips and electronic notification of cancelled trips will be sent to the traveler 86.

The exception trends report process 250 imports data from the department roll-up table 236, the exception table 238, the trip table 128, the accounting periods table 172, and the calendar year table 248. The exception trends report process 250 provides a trend analysis

of travel policy exceptions for a defined time frame. Both written and graphical reports show trends of exceptions by individual, by type, and by department as well as the known costs of those exceptions.

The vendor chain analysis process 252 imports data from the trip table 128, the chain codes table 212, the accounting periods table 172 and the calendar year table 248 and provides an analysis of the booked plus actual activity for a specific date range for a given hotel or car chain. The output includes a total transaction count for number of room/nights or car/days plus a summary of the dollar value of each transaction as well as an average room/car nights per booking and average daily rates.

Now referring to Fig. 9, a detailed block diagram of the utility functions 76 of Fig. 3 is depicted. The import back office data process 254 creates an electronic handoff of data from agency back office system 256 such as ADS or TravelBase, at a defined frequency. The import back office data process 254 is a means by which agency invoice numbers associated with tickets, refunds or exchanges are obtained by the corporate database 18.

The extract summary trip data process 258 provides nightly updates to the trip table 128 and provides data to the summary air trip table 260 and summary city trip table 262.

The archive/delete expense detail process 264 allows input of date parameters such that select expense detailed records that match date parameters are purged from the expense detail table 266 and placed in the archive expense table 268.

The archive/delete trip detailed process 270 allows input of the date parameters such that select trip records that match date parameters are purged from the trip table 128 and placed in the archive table 272.

Now turning to Fig. 10, a detailed block diagram of the expense reporting 80 from Fig. 3 is pictured. The create expense form process 274 provides secured access to the expense forms, autofills the forms with data from the employee profile table 94 and allows the traveler 86 to construct an expense report semi-automatically as well as by pulling stored data from the trip table 128. The create expense form process 274 imports data from the expense category table 168, the expense policy table 174, and the travel policy table 98 and provides this information to the traveler 86 so that the traveler 86 can construct a policy compliant expense report.

The create expense form process 274 also imports data from the currency exchange table and allows the traveler 86 to process currency exchange conversions. When the traveler 86 has completed the expense report, a filled expense form is electronically forwarded to the expense form table 276, where it is assigned a unique expense form number. The number is assigned the first time an expense form is saved. The number is associated with a optional receipt envelope which may be printed at any time after the initial saving of the expense

report has taken place. There is also a traveler reference number to support pre-bar coded envelopes for receipts.

The update expense form process 278 allows the traveler 86 to modify or cancel an expense report. The traveler 86 may import expense form data from expense form table 276 and modify an expense form until it has been approved or may pull up disapproved expense forms for modification and resubmission. An unsubmitted or disapproved expense report may also be cancelled.

The perform validations process 280 checks an expense form against data from the travel policy table 98 to identify unapproved policy violations. Policy violations on the expense form are highlighted and the approver has access to explanations for each of the errant fields. The approver will be able to approve the violations or return the form to the traveler 86 with comments.

The approve expense form process 282 comprises two methods of expense approval. First, the manager level approval gives the manager the option of rejecting an expense form if, for example, it exceeds the data provided from the average cost table 284. If the manager rejects the expense form, it can be routed back to the traveler 86 with comments. If the manager approves the expense form, it is routed to the Accounts Payable 286 for further processing. All approved expense data is also routed to the expense totals table 288. In the second case, the corporation can define situations when approval will be automatic and the expense form is routed directly to the Accounts Payable department 286.

Now turning to Fig. 11, a detailed block diagram of the post-trip management 82 of Fig. 3 is depicted. The analyze air usage process 290 imports data from the trip table 128, the airline agreements table 200 and the summary air city table 292. The analyze air usage process 290 reports the percentage of goal share achieved for a specified city pair carrier, percent of goal share achieved for a carrier overall, overall usage for a given city pair, overall air cost for a given city pair and average leg fare cost for a given city pair.

The analyze car usage process 294 imports data from the local car table 116, the trip table 128 and the summary trip table 296. The analyze car usage process 294 reports percent of goal share achieved for specified chain in a specified city, percent of goal share achieved for chain overall, overall usage for a given city overall car dollar spent in a given city, overall chain usage and average car rental day cost in each city. The analyze hotel usage process 298 imports data from the local property table 114, the summary trip table 296 and the trip table 128.

The analyze hotel usage process 298 reports percent of goal share achieved for a specified hotel chain in a specified city, percent of goal share achieved for a chain overall, overall usage for a given city, overall hotel dollars spent in a given city, overall chain usage, and average hotel night cost in each city.

The analyze policy exceptions process 300 imports data from the expense table 288, the expense category table 168, the department roll-up table 302, the trip table 128, the employee/department table 304, the travel policy table 98, and the exception data and summaries table 306. The analyze policy exceptions process 300 creates on request reports, for example, for monthly reporting of exceptions by employee and by type, overall monthly exception trends by employee and type, overall monthly exception trends by department and type, and overall exceptions by type and monthly trends.

The analyze expenses process 308 imports data from the expense summaries table 310, the expense table 288, the expense category table 168, the department roll-up table 302, the employee/department table 304, and the travel and expense budget table 244. The analyze expenses process 308 creates a report that shows trends by overall company, summary by department, summary by project, and summary by employee.

The ticket tracking process 312 imports data from the trip table 128 and the expense trip table 314. The ticket tracking process 312 reports on the status of any given ticket, lists tickets older than a given number of days that have not appeared on an expense report or been refunded or voided, lists tickets returned for refund which have not been credited, and reports unrefunded tickets or miscellaneous change orders available for exchange.

Now turning to Fig. 12, a detailed block diagram of post-trip management 82 of Fig. 3 is detailed. The analyze employee expenses process 316, uses data from the expense employee summary table 318, the average costs table 284, the expense category table 168, the city/airport codes table 204, and the employee profile table 94. The analyze employee expense process 316 summarizes for a given time period employee expenses by category as well as shows trends in employee expenses by category.

The analyze company expenses process 318 uses data from the company profile table 178, the average costs table 284, the expense category table 168, the city/airport codes table 204, the department table 320, the project detail table 322, the expense project summary table 324, the expense company summary table 326, the department roll-up table 302, and the travel and expense budget table 244. The analyze company expenses process 318 creates a summary for a given time period of company expenses by category and by project as well as trends in company expenses by project and by category.

The analyze department expenses process 328 imports data from the employee profile table 94, the city/airport codes table 204, the expense department summary table 330, the department table 320, the project detail table 322, the expense project summary table 324, the department roll-up table 302, the travel and the expense budget table 244, the expense table 288, the average costs table 284, and the expense category ta-

ble 168. The analyze department expenses process 328 creates a summary for a given time period of departmental expenses by category and by project. The analyze department expenses process 328 also reports trends in departmental expenses by category and by project.

Now turning to Fig. 13, a detailed block diagram of another aspect of the post-trip management 82 of Fig. 3 is depicted. The employee trip policy violations process 330 imports data from employee trip exception the summary table 332, the carrier codes table 202, the trip exception table 334, the travel policy table 98, the expense detail table 336, the trip table 128, the car type codes table 338, the chain codes table 212, the city/airport codes table 204, the exception codes table 158, the expense category table 168, and the employee profile table 94. The employee trip policy violations process 330 creates a summary for a given time period of employee trip violations by category and violation trends by category.

The department trip violations process 340 imports data from the department trip exception summary table 342, the travel policy table 98, and the city/airport codes table 204. The department trip policy violations process 340 creates a summary for a given time period of department trip violations by category and reports trends in department trip violations.

The department expense policy violations process 344 uses data from the city/airport codes table 204, the exception codes table 158, the expense category table 168, the average costs table 284, the expense policy table 174, the department expense exception summary table 348, the company expense exception summary table 350, and the department table 320. The department expense policy violations process 344 creates a summary for a given time period of departmental expense policy violations by category and trends in departmental expense policy violations. The employee expense violations process 352 uses data from the employee profile data base 94, the average costs table 284, the expense policy table 174, the expense detail table 346, the expense explanations table 354, the expense policy exceptions table 356, the company expense exception summary table 350, and the employee expense exception summary table 358. The employee expense violations process 352 creates a summary for a given time period of employee expense violations by category and trends in employee expense violations.

Now turning to Fig. 14, which consists of Figs. 14A-14X, which are drawings that depict graphical user interfaces for trip planning module 68 as described above in reference to Fig. 4. The traveler 86 places a cursor 360 on the New Trip icon 362 and energizes the New Trip icon 362. The traveler 86 then enters the purpose of the trip and charge center for the trip and purpose of trip in the Charge Center window 364 then energizes Okay button 366 with cursor 360. The traveler 86 selects origination and destination data in Flight Request-Seg-

ment 1 window 368 and energizes the Search button 370 with the cursor 360. The traveler 86 selects a flight from the Flight List window 372 which makes a record of the flight in the Trip Activity Log 374 and the Calendar 376. The traveler 86 selects the Continuing Trip icon 378 and selects an origination and destination in the Flight Request-Segment 2 window 380. The traveler 86 selects flight data from the Flight List window 82 and a record of the selected flight is made in the Trip Activity Log 374 and the Calendar 376.

The traveler 86 selects the Hotel icon 384. From the Hotel Request Information window 386, the traveler 86 may search for hotels in the destination city. The traveler 86 selects from a list of hotels from the Hotel List window 388. A record of the hotel selection is made in the Trip Activity Log 374 and on the Calendar 376.

The traveler 86 may select the Rental Car icon 390 to see the Car Request Information window 392. After energizing the Search button 394, the traveler 86 receives a list of available cars and prices in the destination city from the Car List window 396. After the traveler 86 selects a car, a record of the car selected is made in the Trip Activity Log 374 and on the Calendar 376.

The traveler 86 selects the Cost icon 398 to view the Trip Price Information window 400. From the Trip Price Information window 400, the traveler 86 may search for cheaper flights by energizing the Search for Cheaper Flights button 402 which brings up the Bargain-FinderPlus Parameters window 404. From the Bargain-FinderPlus Parameters window 404, the traveler 86 may search for cheaper flights by selecting from a menu of parameters. After completing the search, results are displayed from the BargainFinderPlus Search Results window 406 from which the traveler 86 may select from a menu of flights. The traveler 86 may select a different flight by energizing Yes button 408 in the Replace Flights Message window 410. A record of this transaction is made by updating the Trip Activity Log 374 and the Calendar 376.

The traveler 86 may confirm ticketing by energizing the Confirm Ticketing icon 412. From the Confirmation-Ticket Delivery window 414, the traveler 86 may choose a method for obtaining tickets by energizing Okay button 416. The travel Itinerary window 418 is then displayed for the traveler 86.

The traveler 86 may create a reservation by pressing the Finish icon 420. If the traveler 86 wishes to finish the reservation process and send it on to the travel agency for processing, the traveler 86 may energize Yes button 422 in the Finish Reservations window 424. The resulting display shows the the Trip Activity Log 374 and the Calendar 376 with current travel information.

Now turning to Fig. 15, which consists of Figs. 15A-15G, which are diagrams of graphical user interfaces for repeat trip planning as described above in reference to Fig. 4. The traveler 86 energizes the Frequent Trip icon 426 to receive a menu of frequent trips in the Frequent Trip window 428. The traveler 86 then requests addi-

tional details from a selected frequent trip by energizing the Details button 430. If the appropriate frequent trip was selected, the traveler 86 energizes Okay button 432 from the Frequent Trip Details window 434. The traveler 86 then energizes the Select Trip button 436 from the Frequent Trip window 428. The traveler 86 then inputs the date on which travel will begin and energizes the Reserve button 438 in the Frequent Trip Dates window 440. As this information is being processed, the Frequent Trip-Reserving window 442 is viewed by the traveler 86. If Cancel button 444 is not depressed, the Frequent Trip Completed window 446 is displayed and the traveler 86 finishes the reservation process by energizing Yes button 448.

Now turning to Fig. 16, which consists of Figs. 16A-16M, which are diagrams of graphical user interfaces for creating an expense report as described above in reference to Fig. 10. The traveler 86 selects New Expense Report icon 450 or Modify Expense Report icon 452 from the Expense Report window 454 which shows the status of saved expense reports in an Expense Report Log window 456. Energizing the New Expense Report icon 450 or the Modify Expense Report icon 452 brings up the Expense Data Range window 458, from which the traveler 86 enters or the corporate database 18 autofills date, project and purpose of the trip/expense parameters. The traveler 86 then energizes the Okay button 460 to view the Air Item Detail window 462 from which the traveler 86 enters or the corporate database 18 autofills charge parameters for the selected city pair 464. The traveler 86 may also enter an explanation of expenses in the Explanation window 466.

The traveler 86 then energizes the Okay button 468 to view the Car Item Detail window 470 from which the traveler 86 enters or the corporate database 18 autofills car rental and car receipt parameters. The corporate database 18 also provides corporate policy data 472 to the traveler 86. The traveler 86 then energizes the Okay button 474 to view the Hotel Item Detail window 476 from which the traveler 86 enters or the corporate database 18 autofills hotel booking and hotel receipt parameters. The traveler 86 then energizes the Okay button 478 to view the Meals Detail window 480 from which the traveler 86 enters or the corporate database 18 autofills reimbursement parameters. The traveler 86 then energizes the Okay button 478 to view the Business Entertainment Detail window 484 from which the traveler 86 enters or the corporate database 18 autofills entertainment parameters. To return to the Expense Report window 454, the traveler 86 energizes the Okay button 486.

The traveler 86 may select the Calculate Totals icon 488 to bring up the Calculate Totals window 490. Expense are totaled by date or by type for the traveler 86. The traveler 86 may also input payment instructions.

The traveler 86 may check for policy compliance by energizing the Check Policy button 492 from the Calculate Totals window 490 of the Check Policy icon 494 from the Expense Report window 454. The traveler 86 views

the Check Policy Compliance window 496 while the system does a policy check. The traveler 86 may request explanation of policy violations by energizing the View Exceptions button 498. The traveler 86 may also energizing the Okay button 500 to view the expense report in Expense Report window 502. The traveler 86 submits the expense report for approval by energizing the Submit for Approval icon 504.

Although the invention has been described in detail, it is to be clearly understood that the same is by way of illustration and example only and is not to be taken by way of limitation, the spirit and scope of the invention being limited only to the terms of the appended claim.

Claims

1. A client-server system for corporate travel planning, expense reporting and travel management comprising:

a computerized reservation system;
a relational database server communicably linked to the computerized reservation system;
and
a travel planning, expense reporting and travel management system resident within a personal computer providing a graphical user interface for communication between the computer user, the travel planning, expense reporting and travel management system and the relational database server.

2. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 1 wherein the relational database server stores traveler and corporate profiles which interface between the travel planning, expense reporting and travel management system and the computerized reservation system.
3. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 1 wherein the travel planning, expense reporting and travel management system further comprises a travel planning module and a travel expense reporting module.
4. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 3 wherein the travel planning module includes means for automated approval of travel requests before travel expenses are incurred.
5. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 3 wherein the travel planning module includes a series of graphical user interfaces for

the planning and booking of a non-routine trip including air, hotel and car accommodations.

6. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 3 wherein the travel planning module includes a series of graphical user interfaces for the planning and booking of a repeat trip including air, hotel and car accommodations. 5
7. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 3 wherein the travel expense reporting module further comprises means for automated expense report approval 10
8. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 3 wherein the travel expense reporting module further comprises means for automated expense report approval 15
9. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 3 wherein the travel expense reporting module includes a series of graphical user interfaces for providing corporate policy information from the relational database server 20
10. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 3 wherein the travel expense reporting module includes a series of graphical user interfaces that are pre-populated with trip data from the relational database server. 25
11. The client-server system for corporate travel planning, expense reporting and travel management as recited in claim 3 wherein the travel planning expense reporting and travel management system further comprises a travel decision maker module that incorporates information from the trip planning module and the expense reporting module for providing pre-travel and post-travel reporting 30
12. A method for corporate travel planning, expense reporting and travel management utilizing a personal computer communicably linked to a relational database server that is communicably linked to a computerized reservation system that provides travel information from the computerized reservation system to the relational database server and the travel planning, expense reporting and travel management system that comprises the steps of: 35

preparing a travel request;
obtaining approval for travel;
preparing an expense report; and

obtaining approval for the expense report.

13. The method for corporate travel planning, expense reporting and travel management as recited in claim 12 wherein the step of preparing a travel request further comprises the steps of: 40
 - energizing a new trip icon;
 - providing corporate policy data from the relational database;
 - specifying a purpose for the trip;
 - selecting an origination point and a destination point;
 - selecting a flight time to travel from the origination point and the destination point;
 - selecting a flight time for the return flight from the destination point to the origination point;
 - creating a record of the flight information;
 - energizing a hotel icon;
 - requesting hotel information;
 - selection a hotel;
 - creating a record of the hotel information;
 - energizing a car icon;
 - requesting car information;
 - selection a car;
 - creating a record of the car information;
 - energizing a cost icon;
 - searching for a cheaper flight;
 - selecting a cheaper flight; and
 - sending the travel request to a travel agency for booking. 45
14. The method for corporate travel planning, expense reporting and travel management as recited in claim 12 wherein the step of preparing a travel request further comprises the steps of: 50
 - energizing a frequent trip icon;
 - selecting a frequent trip;
 - inputting a date for the trip; and
 - sending the travel request to a travel agency for booking. 55
15. The method for corporate travel planning, expense reporting and travel management as recited in claim 12 wherein the step of obtaining approval for travel further comprises the steps of:
 - electronically sending the travel request to an approver;
 - providing the approver with corporate policy data from the relational database;
 - electronically approving the travel request; and
 - electronically notifying the traveler of approval.
16. The method for corporate travel planning, expense reporting and travel management as recited in claim 12 wherein the step of preparing an expense report

further comprises the steps of:

energizing a new expense report icon;
specifying the date and purpose of the ex- 5
pense;
detailing the air, car, hotel, meal and business
entertainment expenses;
calculating expense totals;
checking for corporate policy compliance;
creating an expense report; and 10
electronically routing the expense report for ap-
proval.

17. The method for corporate travel planning, expense 15
reporting and travel management as recited in claim
12 wherein the step of obtaining approval for the
expense report further comprises the steps of:

electronically sending the expense report to an 20
approver.
providing the approver with corporate policy da-
ta from the relational database;
electronically approving the the expense re-
port; and
electronically notifying the traveler of approval. 25

18. A client-server system for corporate travel planning, 30
expense reporting and travel management com-
prising

a computerized reservation system;
a relational database server communicably
linked to the computerized reservation system;
and
a travel planning, expense reporting and travel 35
management system resident within a personal
computer providing a graphical user interface
for communication between the computer user,
the travel planning, expense reporting and trav-
el management system and the relational da- 40
tabase server, the travel planning, expense re-
porting and travel management system com-
prising a travel planning module, a travel ex-
pense reporting module and a travel decision
maker module, the travel planning module in- 45
cludes means for automated approval of travel
requests before travel expenses are incurred
and a series, of graphical user interfaces for the
planning and booking of routine and non-rou- 50
tine trips including air, hotel and car accommo-
dations, the travel expense reporting module
includes means for automated expense report
approval and means for automated expense re-
port approval and routing, and the travel deci- 55
sion maker module incorporates information
from the trip planning module and the expense
reporting module for providing pre-travel and
post-travel reporting.

19. The client-server system for corporate travel plan-
ning, expense reporting and travel management as
recited in claim 18 wherein the relational database
server stores traveler and corporate profiles which
interfaces between the travel planning, expense re-
porting and travel management system and the
computerized reservation system.

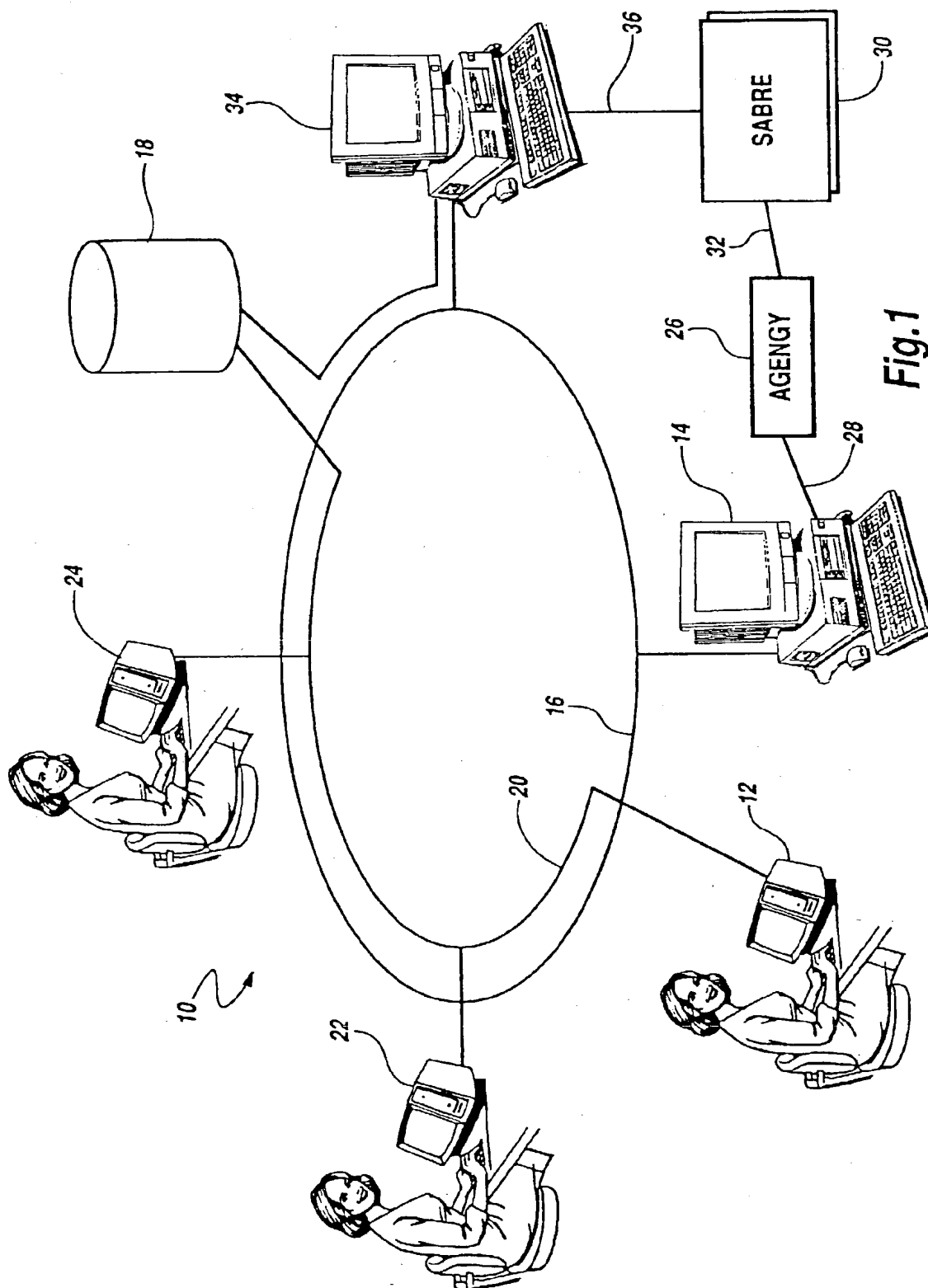
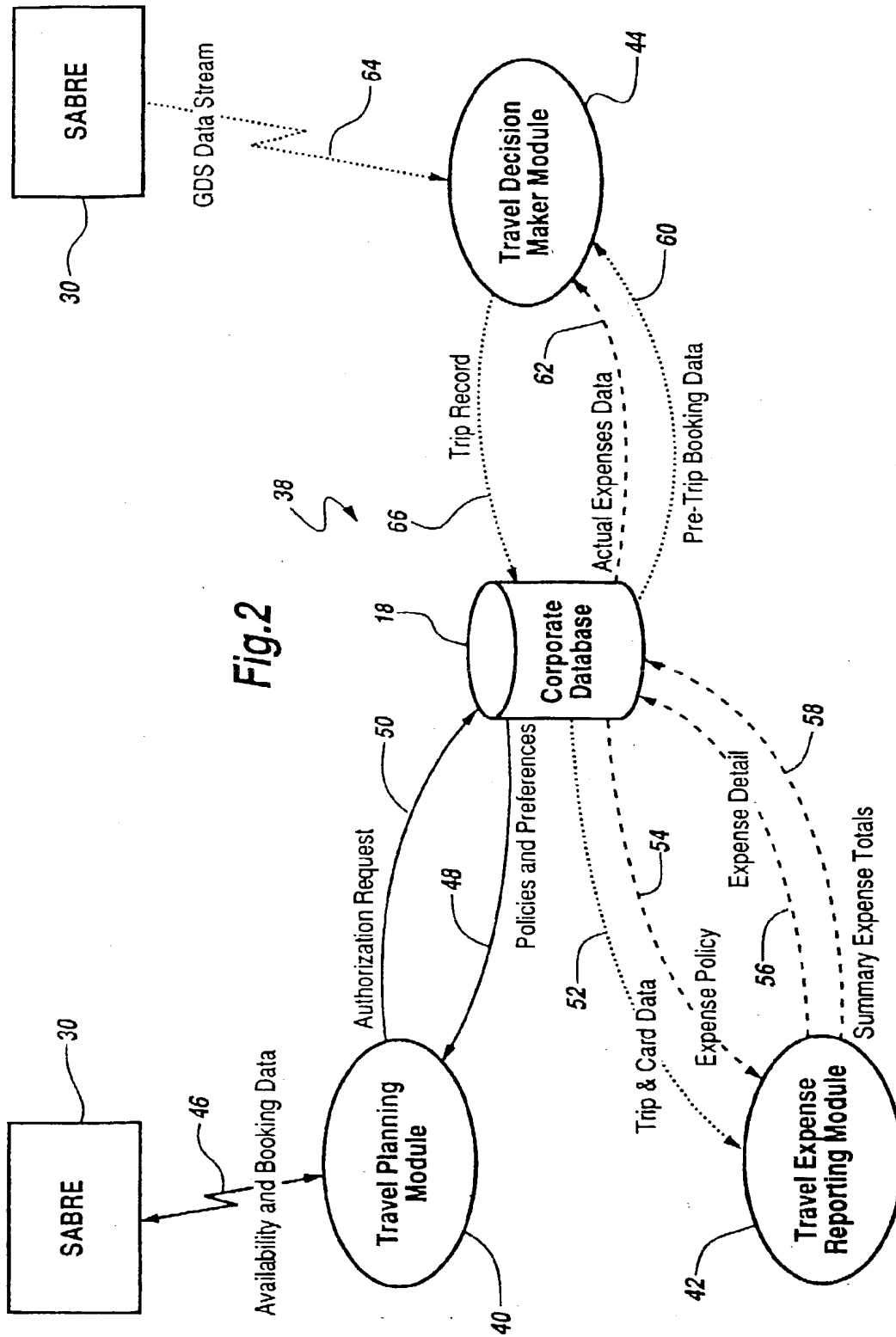


Fig. 1



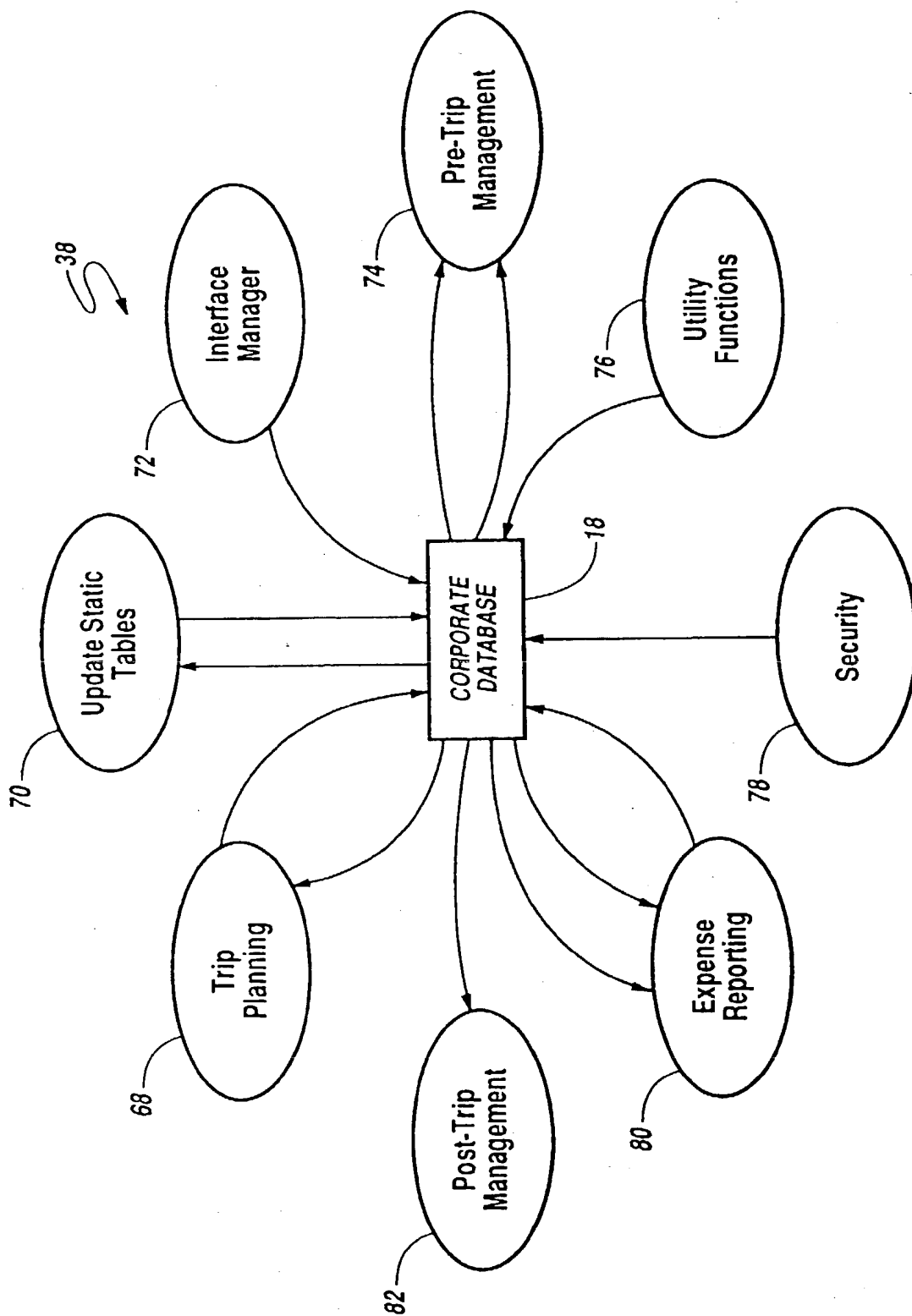
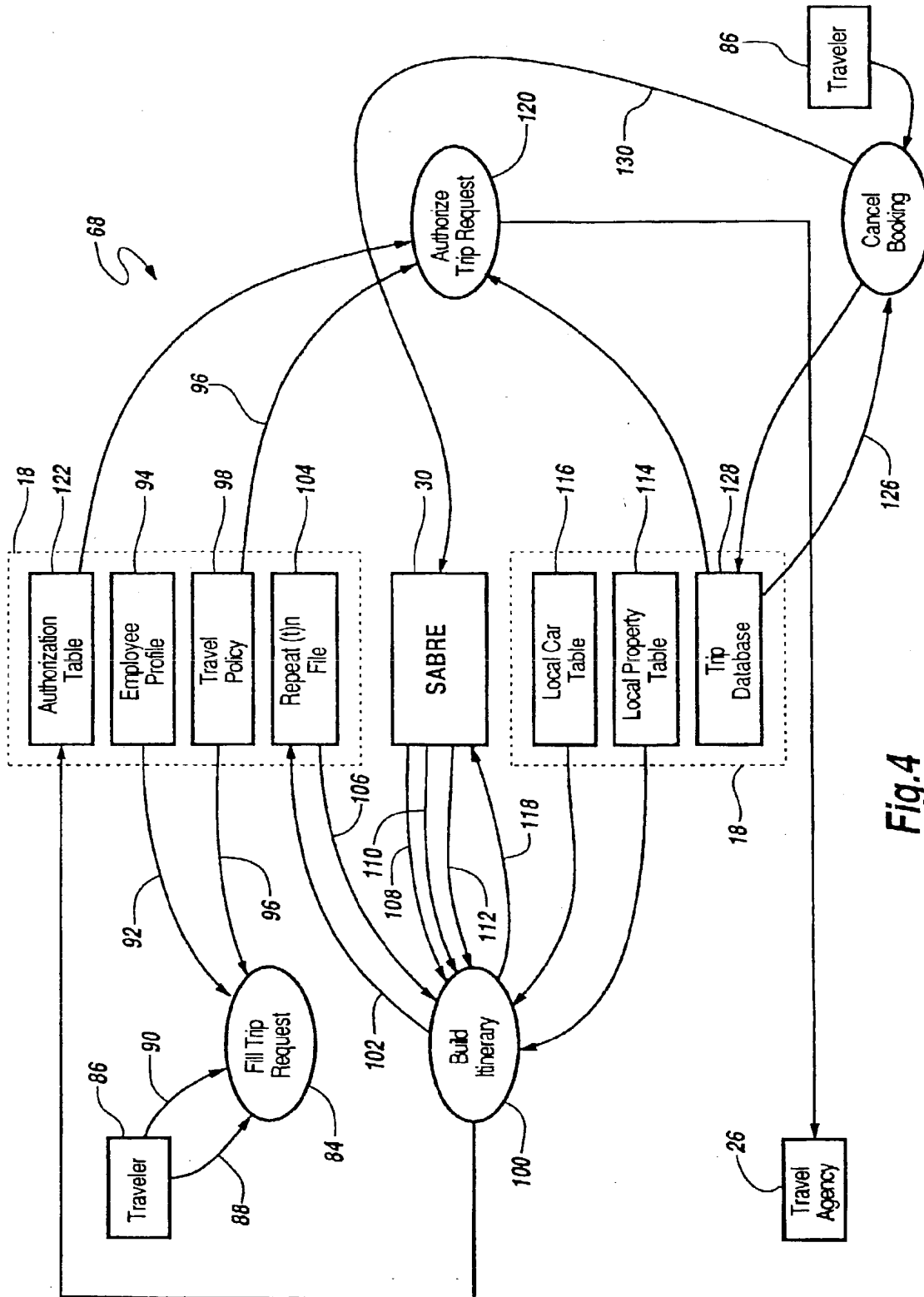


Fig.3



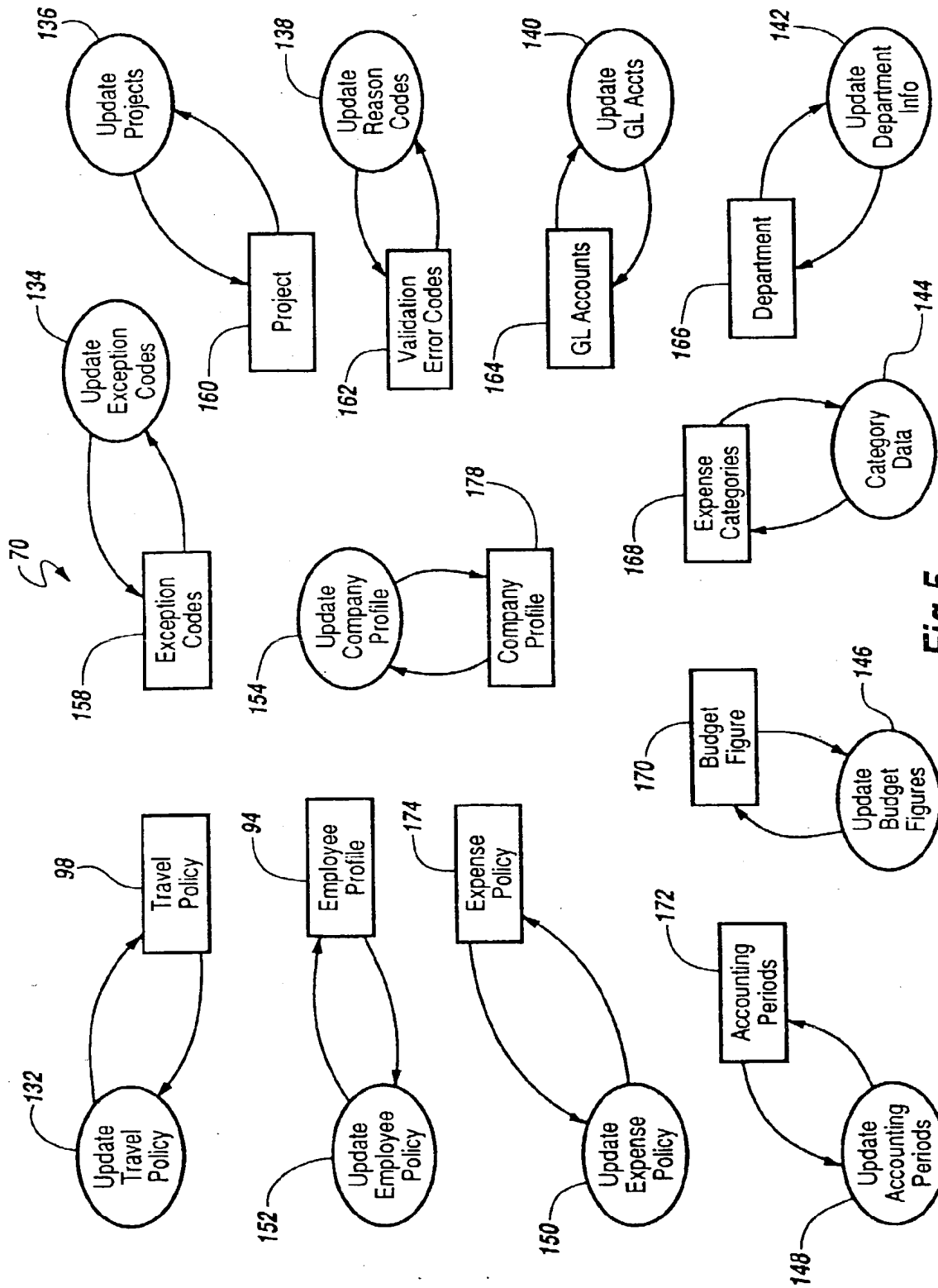


Fig. 5

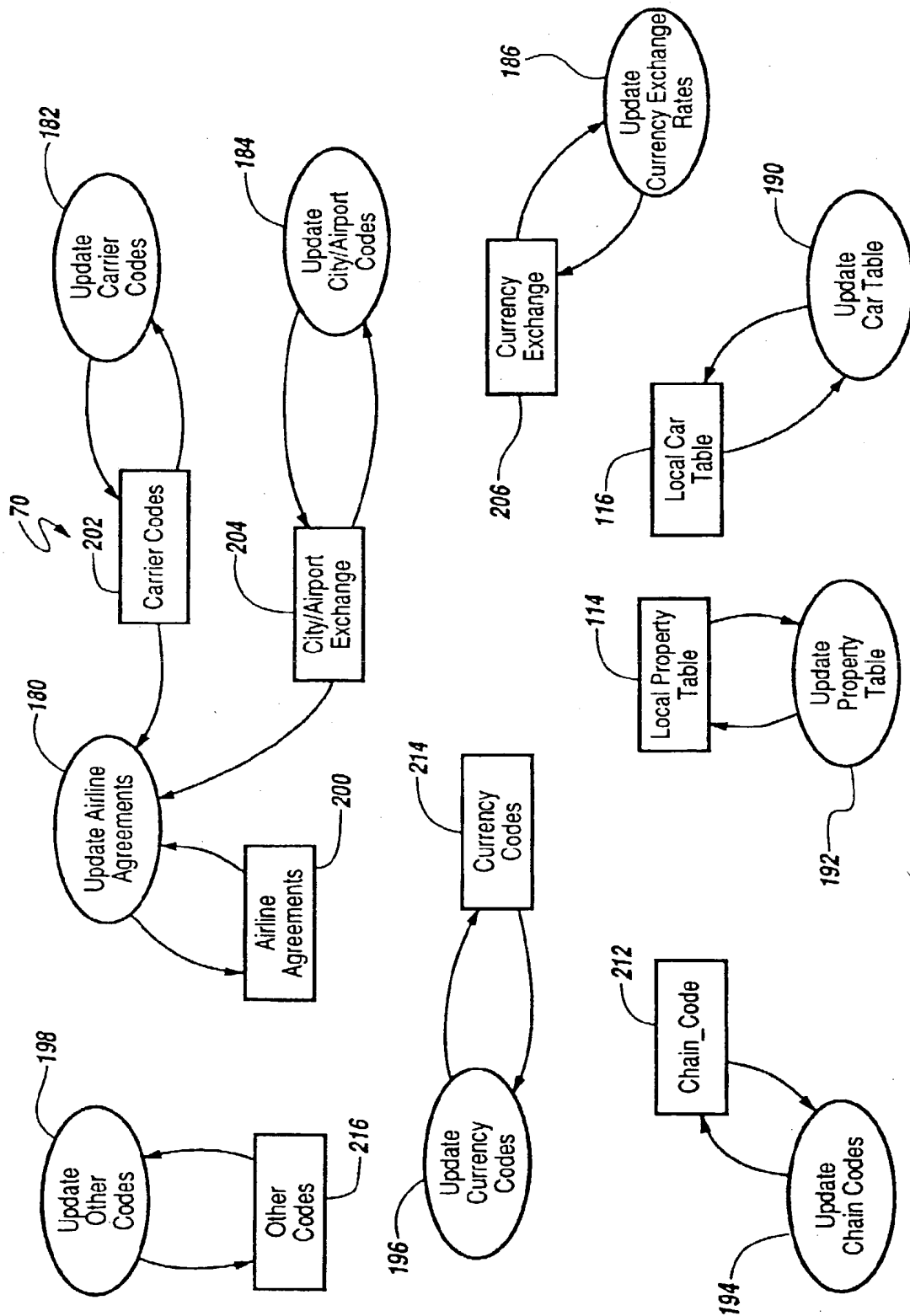


Fig.6

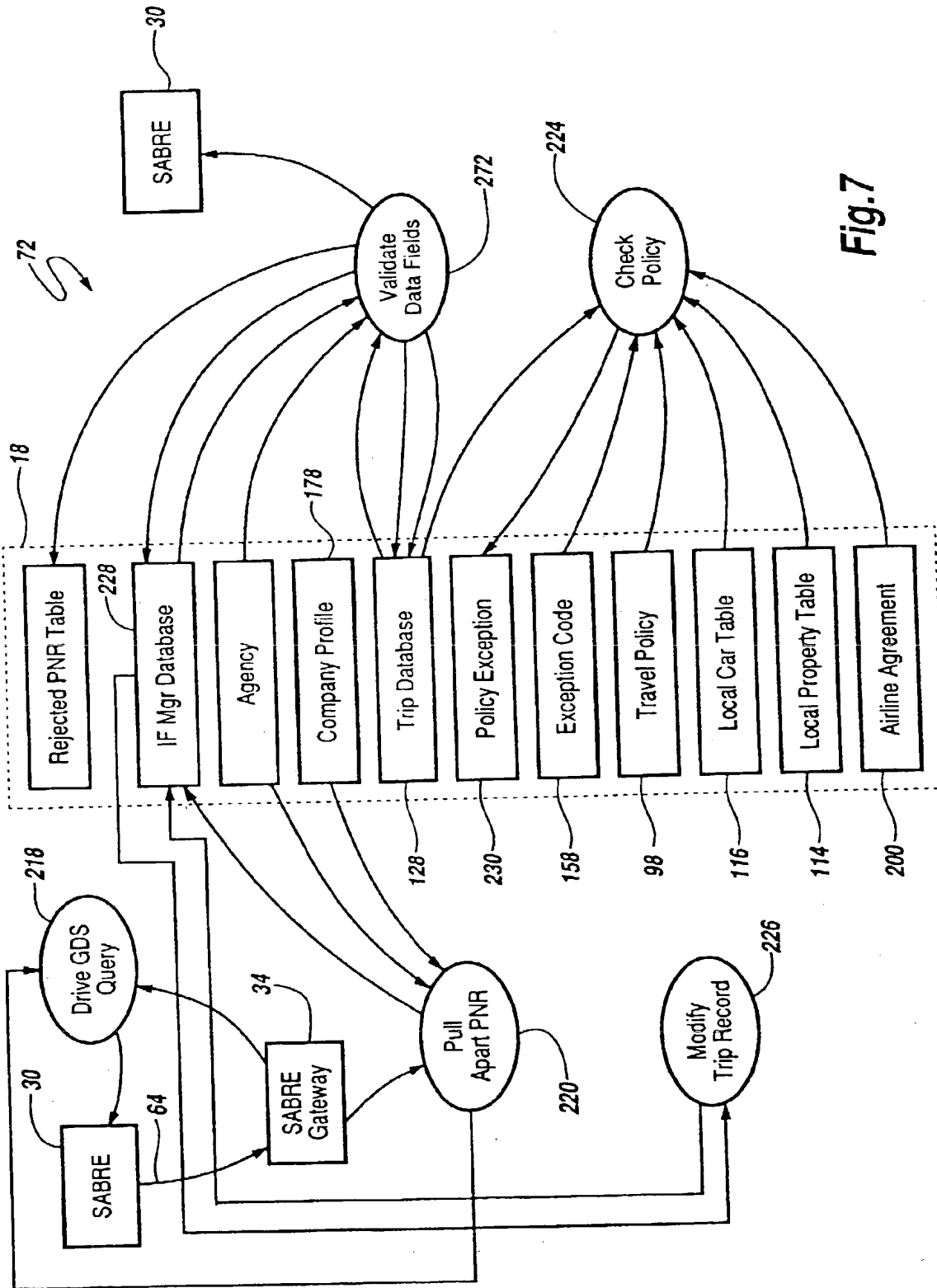


Fig.7

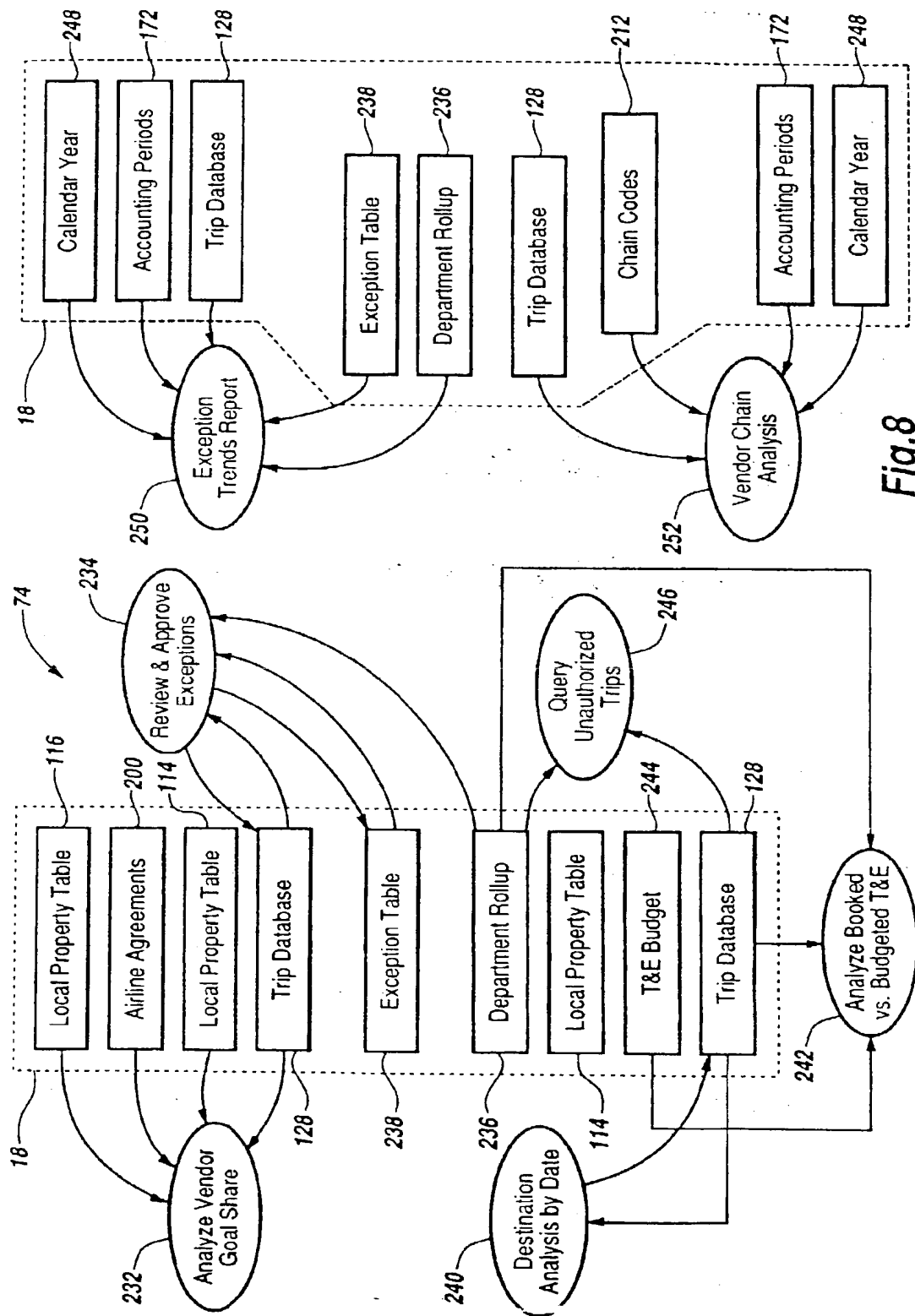


Fig.8

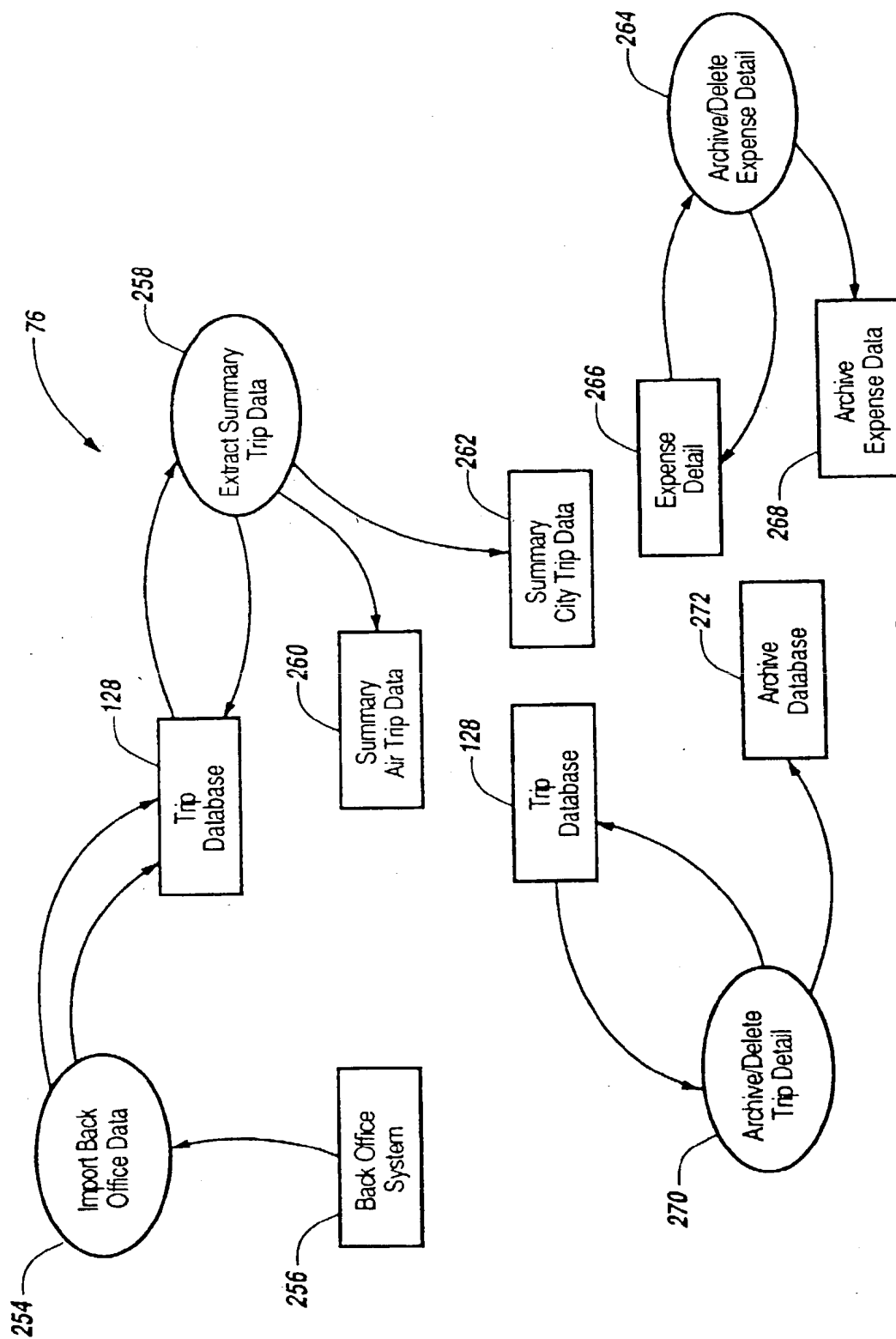


Fig.9

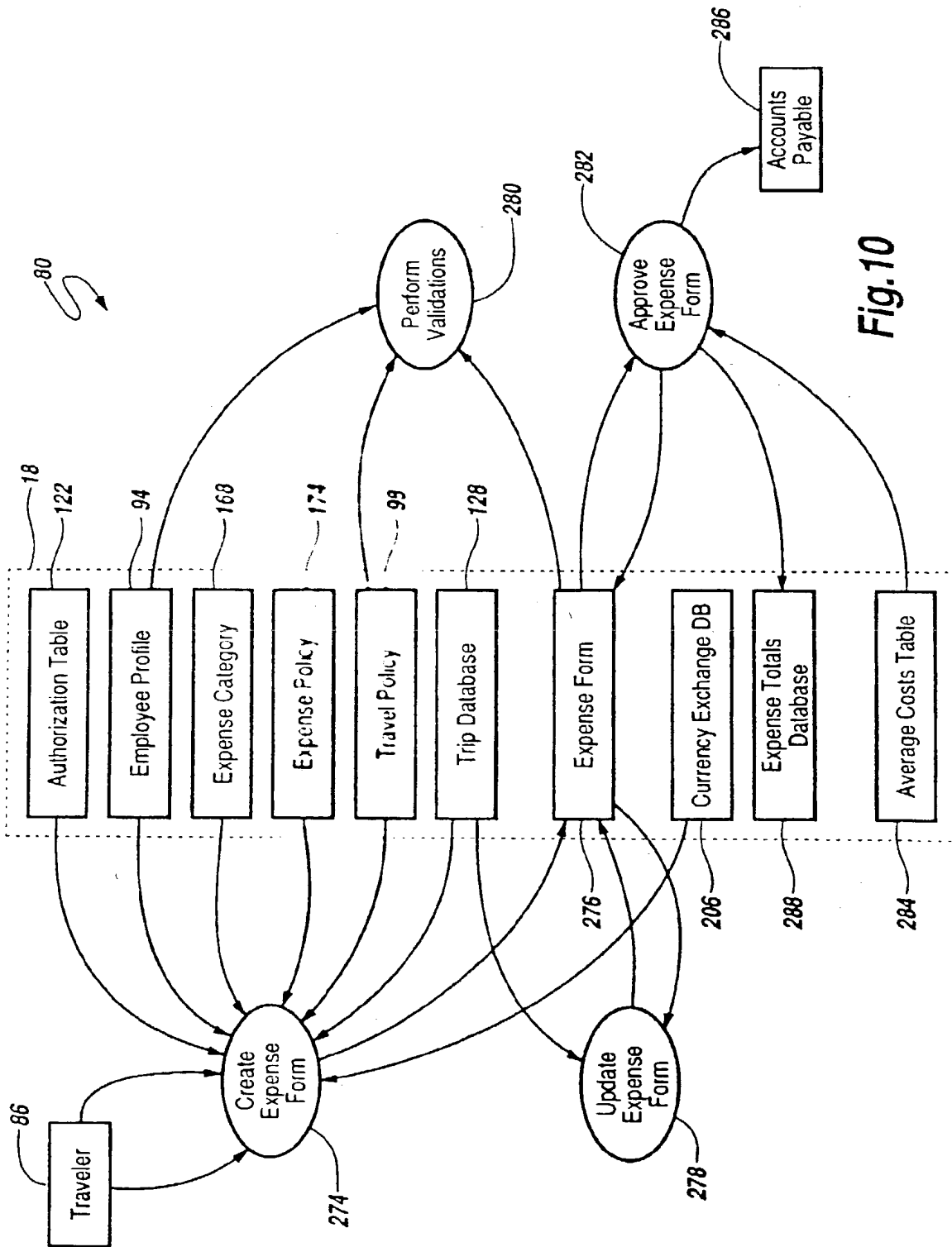
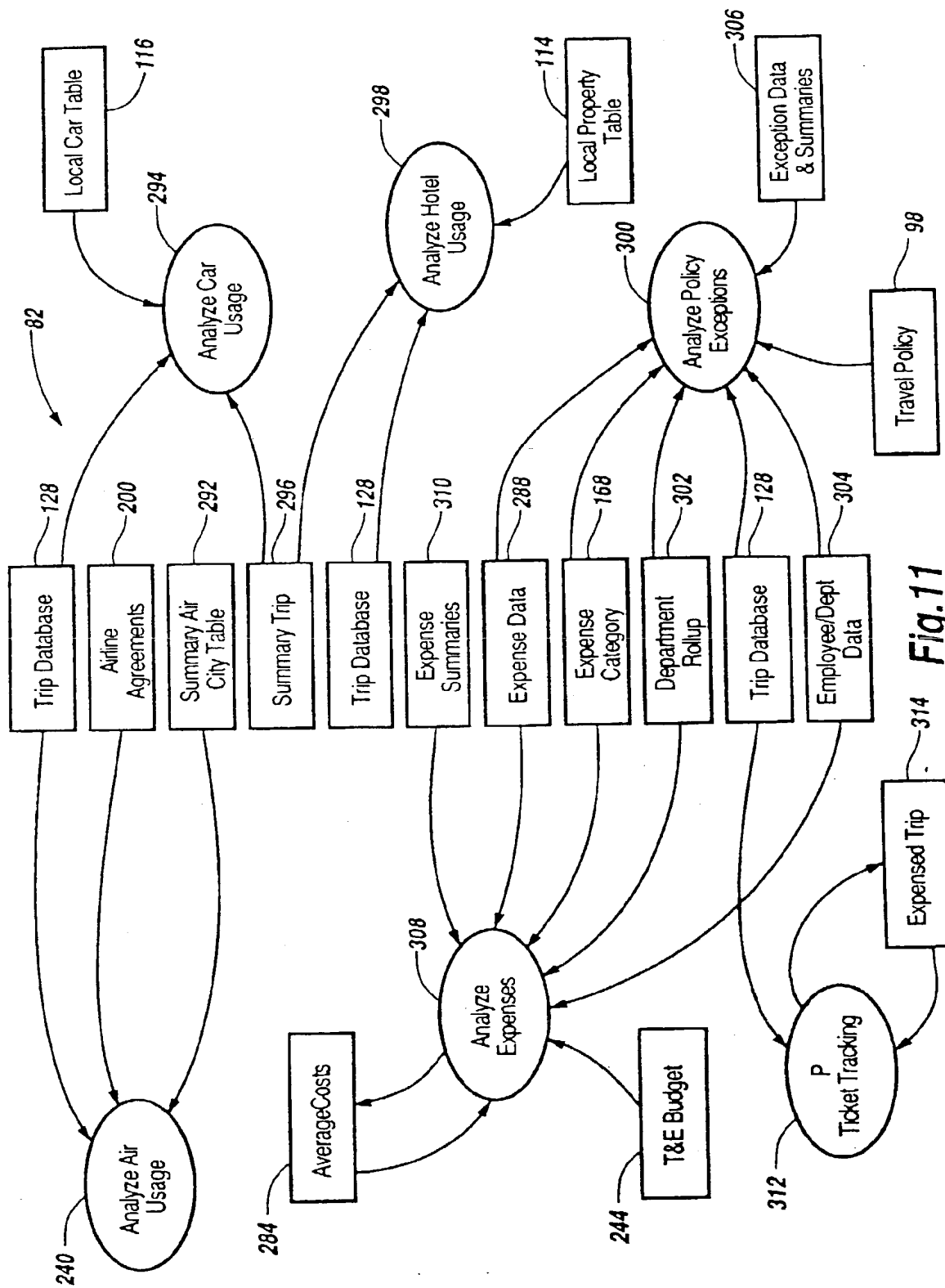


Fig. 10



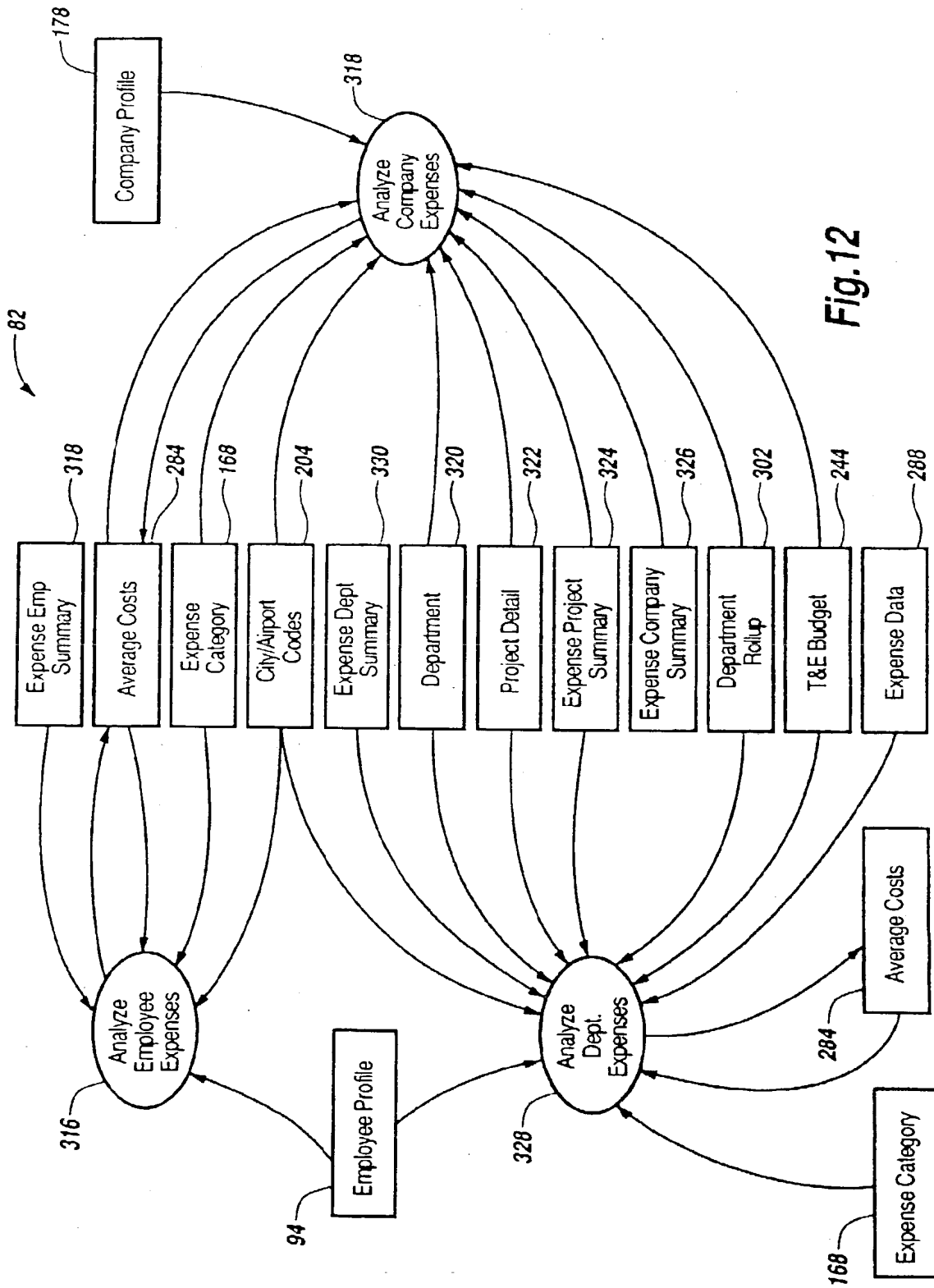


Fig. 12

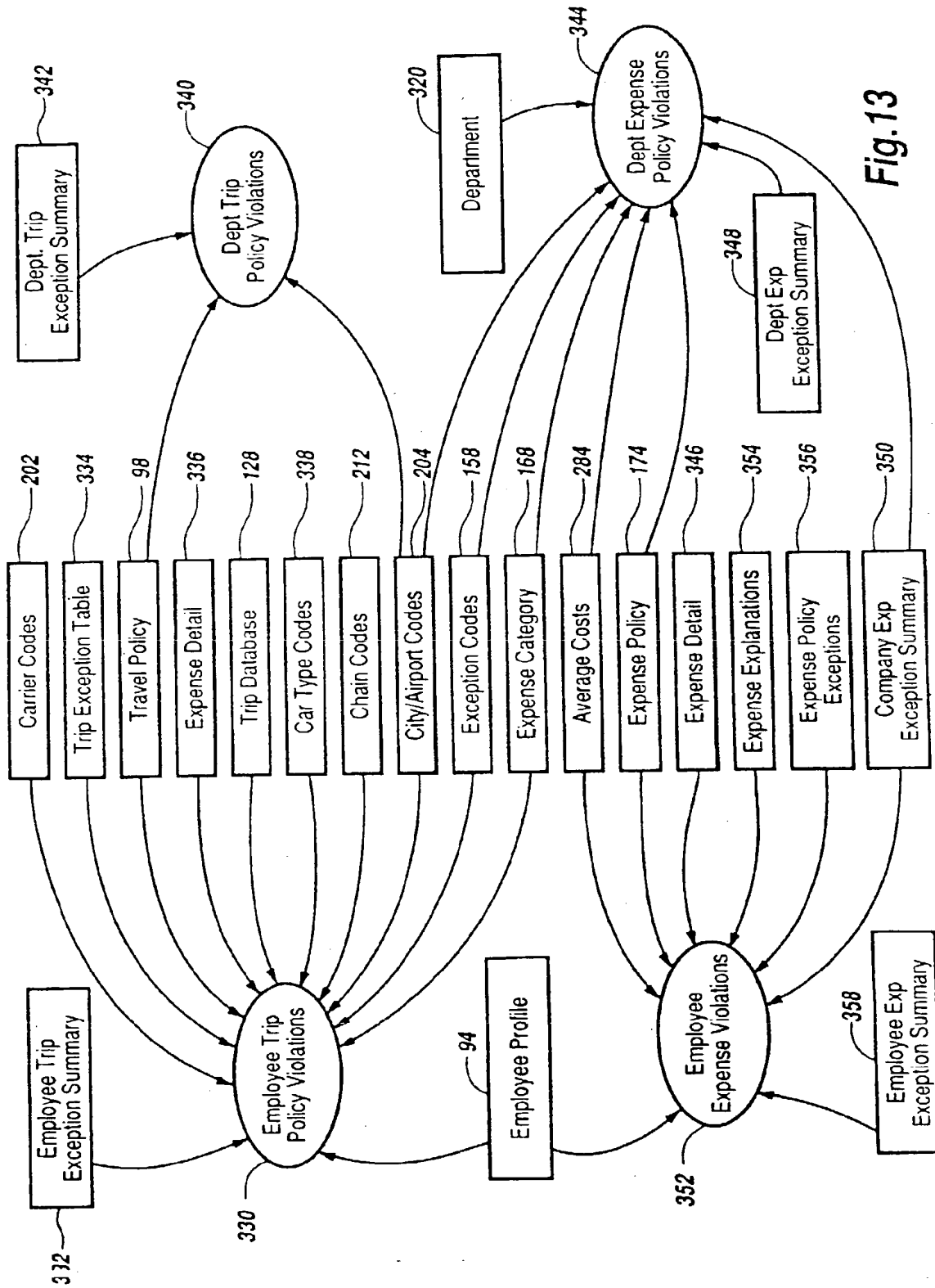


Fig.13

Fig.14A

SABRE Travel Planner

Reservation

Edit

View

Request

Options

Help

Trip Activity Log

360

Detailed Itinerary...

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

1995

Sun

Mon

Tue

Wed

Thu

Fri

Sat

27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Message line

Status line

7/02/1995

352

26

27

Fig.14D

SABRE Travel Planner

Reservation Edit View Request Options Help

Trip Activity Log

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

1995

Flight List - Dallas, TX (DFW) to Chicago, IL (ORD)

Select Flight

Modify Search...

Cancel

More Flights...

Flight Details...

?

Please select a flight from the list below by double-clicking on the line of your choice or by single-clicking the line of your choice and pressing the "Select Flight" button.

Flight List:

Co	Pref	Pers	Carrier	Flight #	Depart	City	Arrive	City	Stops	Status
✓		✓	American	2220	6:00A	DFW	8:05A	ORD	0	avail
✓		✓	American	2224	7:00A	DFW	9:10A	ORD	0	avail
✓		✓	American	2326	7:30A	DFW	9:41A	ORD	0	avail
		✓	United	224	8:00A	DFW	10:00A	ORD	0	cancel'd
✓		✓	American	2230	8:30A	DFW	10:50A	ORD	0	sold out
✓		✓	American	2334	9:30A	DFW	11:41A	ORD	0	avail

(**) In front of a flight number means commuter airline.

Detailed Itinerary...

Message line

Status line

7/02/1995

Fig.14E

SABRE Travel Planner

Reservation Edit View Request Options Help

1995

Trip Activity Log

Reserved:

American 2220

Depart:DFW 6:00A

July 6,1995

Arrive:ORD 8:05A

July 6,1995

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sun	Mon	Tue	Wed	Thu	Fri	Sat					
27	28	29	30	1	2	3					
4	5	6	7	8	9	10					
11	12	13	14	15	16	17					
18	19	20	21	22	23	24					
25	26	27	28	29	30	1					
2	3	4	5	6	7	8					

Message line

Status line

7/02/1995

374

378

376

Fig.14F

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity

Flight Request-Segment 2

Origination and Destination

From

To

Date

Time Depart ☐ Arrive ☐

Fare Desired

☐ All flight types: non-stops, directs, and connections

☒ Direct Flights

☒ Non-stops

☒ Direct with stop(s)

☐ Connections

Through

Connecting times between and hours

Detailed Itinerary...

Message line

Status line

7/02/1995

1995 Sat 3 10 17 24 1 380 8

Fig.14G

382

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity Log

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Flight List - Chicago, IL (ORD) to Dallas, TX (DFW)

Please select a flight from the list below by double-clicking on the line of your choice or by single-clicking the line of your choice and pressing the "Select Flight" button.

Flight List:

Co	Pref	Pers	Pref	Carrier	Flight #	Depart	City	Arrive	City	Stops	Status
✓		✓		American	2239	3:30P	ORD	6:03P	DFW	0	sold out
✓		✓		American	2241	4:00P	ORD	6:25P	DFW	0	avail
✓		✓		American	2343	4:30P	ORD	6:57P	DFW	0	avail
✓		✓		American	2245	5:00P	ORD	7:30P	DFW	0	avail
		✓		United	621	5:45P	ORD	8:08P	DFW	0	avail
✓		✓		American	2249	6:00P	ORD	8:28P	DFW	0	avail

(**) In front of a flight number means commuter airline.

Select Flight
Modify Search...
Cancel
More Flights...
Flight Details...
?

Detailed Itinerary...

Message line

Status line


7/02/1995


Fig. 14H

SABRE Travel Planner 384

Reservation Edit View Request Options Help

Trip Activity Log

Reserved:  American 2220
 Depart:DFW 6:00A
 July 6,1995
 Arrive:ORD 8:05A
 July 6,1995

Reserved:  American 2245
 Depart:ORD 5:00P
 July 7,1995
 Arrive:DFW 7:30P
 July 7,1995

Detailed Itinerary...

Message line

Status line

7/02/1995

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	1995
Sun	Mon	Tue	Wed	Thu	Fri	Sat						
27	28	29	30	1	2	3						
4	5	6	7	8	9	10						
11	12	13	14	15	16	17						
18	19	20	21	22	23	24						
25	26	27	28	29	30	1						
2	3	4	5	6	7	8						

374

376

Fig.141

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity Log

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Hotel Request Information

Reserved: American 2220
Depart: DFW 6:
July 6, 1995
Arrive: ORD 8:
July 6, 1995

Reserved: American 2249
Depart: ORD 5:
July 7, 1995
Arrive: DFW 7:
July 7, 1995

Check-In

City: Chicago, IL - ORD - O'Hare Intl Airport

Date: 07/06/95 Time: 5:00 PM

Location: Downtown

Room Type: Standard, 2 Double Beds

Check-Out

Date: 07/07/95

☒ Guarantee Late Arrival to Credit Card

Search... Request Only Cancel Comment... Preferences... ?

3 10 17 24 1 386

2 3 4 5 6 7 8

Detailed Itinerary...

Message line Status line 7/02/1995

SABRE Travel Planner
 Reservation Edit View Request Options Help

Trip Activity Log

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Hotel List - Chicago, IL

Please select a hotel from the list below by double-clicking on the line of your choice or by single-clicking the line of your choice and pressing the "Select Hotel" button.

Hotel List:

Co	Pers	Chain	Property	City	USD (\$)
		Hilton	Palmer	Chicago, IL	121.00
	✓	Holiday Inn	City Center	Chicago, IL	140.00
✓	✓	Holiday Inn	Mart Plaza	Chicago, IL	109.00
		Hyatt	Hyatt	Chicago, IL	149.00
		Hyatt	Park Hyatt	Chicago, IL	179.00
		Marriot	City Center	Chicago, IL	158.00

Buttons: Select Hotel, Modify Search..., Cancel, More Hotels..., Hotel Details..., ?

Reserved: American 22
 Depart: DFW
 July 6, 19
 Arrive: ORD
 July 6, 19

Reserved: American 22
 Depart: ORD
 July 7, 19
 Arrive: DFW
 July 7, 19

Detailed Itinerary ...

Message line

Status line 7/02/1995

Fig. 14J

388

Fig.14K

SABRE Travel Planner

Reservation Edit View Request Options Help

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

376

Trip Activity Log

Reserved: American 2220
 Depart:DFW 6:00A
 July 6,1995
 Arrive:ORD 8:05A
 July 6,1995

Reserved: Holiday Inn
 Mart Plaza
 Chicago,IL
 Check-in 5:00P
 July 6,1995
 Check-out: 11:00A
 July 7,1995
 1 night = \$109.00

Reserved: American 2245
 Depart:ORD 5:00P
 July 7,1995
 Arrive:DFW 7:30P

374

Detailed Itinerary...

Message line

Status line

7/02/1995

36

Fig. 14M

396

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity Log

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Car List - Chicago, IL

Please select a car from the list below by double-clicking on the line of your choice or by single-clicking the line of your choice and pressing the "Select Car" button.

Car List:

Co Pref	Pers Pref	Company	Type	Location	Miles	USD (\$)
		Alamo	Mid-size	On Term	Unl	56.99
	✓	Avis	Mid-size	On Term	Unl	57.99
✓	✓	Budget	Mid-size	On Term	Unl	54.97
		Dollar	Mid-size	On Term	Unl	58.95
		Enterprise	Mid-size	Off Arpt	Unl	58.99
		Hertz	Mid-size	On Term	Unl	60.99

* Price is based on a daily rate and does not include taxes, insurance, fuel costs or charges, and any other miscellaneous charges or fees.

Buttons: Select Car, Modify Search..., Cancel, Car Details..., ?

Reserved: American 2245
Depart: DFW July 6, 1995
Arrive: ORD July 6, 1995

Reserved: Holiday Inn
Mart Plaza
Chicago, IL
Check-in 5:00
July 6, 1995
Check-out: July 7, 1995
1 night = \$100

Reserved: American 2245
Depart: ORD 5:00P
July 7, 1995
Arrive: DFW 7:30P

Detailed Itinerary...

Message line Status line 7/02/1995


Fig. 14N


SABRE Travel Planner 398


Reservation Edit View Request Options Help

Trip Activity Log

374

Reserved: 
 American 2220
 Depart: DFW 6:00A
 July 6, 1995
 Arrive: ORD 8:05A
 July 6, 1995

Reserved: 
 Budget Rental Car
 ORD Airport
 Pick-up: 8:30A
 July 6, 1995
 Drop-off: 5:00P
 July 6, 1995
 2 days \$109.94

Reserved: 
 Holiday Inn
 Mart Plaza
 Chicago, IL
 Check-in 5:00P
 July 6, 1995
 Check-out: 11:00A

Detailed Itinerary...

376

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	1995
Sun	Mon	Tue	Wed	Thu	Fri	Sat						
27	28	29	30	1	2	3						
4	5	6	7	8	9	10						
11	12	13	14	15	16	17						
18	19	20	21	22	23	24						
25	26	27	28	29	30	1						
2	3	4	5	6	7	8						

Message line Status line 7/02/1995

SABRE Travel Planner
 Reservation Edit View Request Options Help

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Trip Activity Log

Reserved:
 American 22
 Depart:DFW
 July 6,19
 Arrive:ORD
 July 6,19

Reserved:
 Budget Rent
 ORD Airport
 Pick-up: 8:30
 Drop-off: 5:00
 July 6,19
 July 6,19
 2 days \$109

Reserved:
 Holiday Inn
 Mart Plaza
 Chicago, IL
 Check-In 5:00
 July 6,19
 Check-out:

Detailed Itin

Message line

Status line

7/02/1995

Trip Price Information

Press the "Confirm" button to complete the reservation with the prices listed below.

Press "Search for Cheaper Flights" button to display up to three less expensive sets of flights.

Press "Close" to return to the Calendar.

Confirm...

Close

?

Trip Estimates in USD

Airfare	= 499.00
Hotel Est. *	= 109.00
Car Est. *	= 109.94
Trip Total Est.	= 717.94

Search for Cheaper Flights

Airfare Rules and Restrictions

This is a restricted airfare. Penalties may apply to changes or cancellation.

* Estimates determined by nightly or daily rate times the number of nights or days. It does not include taxes or other incidentals.

Fig.140

40

Fig. 14Q

SABRE Travel Planner
 Reservation Edit View Request Options Help

Trip Activity Log

SABRE BargainFinder Plus Search Results

Please select an Alternate Reservation by double-clicking on the line of your choice or by single clicking a line and pressing the "Select Res" button. Press the "Close" button if you wish to change the Original Reservation.

Original Reservation:

American 2220 departs DFW 6:00A arrives ORD 8:05A
 American 2245 departs ORD 5:00P arrives DFW 7:30P \$ 498.00

Alternate Reservation(s):

Co Pref	Pers Pref	Carrier	Flight	Depart	City	Arrive	City	Price
✓	✓	American	2224	7:00A	DFW	9:10A	ORD	460.00
		American	2245	5:00P	ORD	7:30P	DFW	460.00
✓	✓	American	2326	7:30A	DFW	9:41A	ORD	460.00
		American	2249	6:00P	ORD	8:28P	DFW	460.00
✓	✓	American	2220	6:00A	DFW	8:05A	ORD	488.00
		American	2249	6:00P	ORD	8:28P	DFW	488.00

Reserved:
 American 2220
 Depart: DFW
 July 6, 1995
 Arrive: ORD
 July 6, 1995

Reserved:
 Budget Re
 ORD Airpo
 Pick-up: 8:00
 July 6, 1995
 Drop-off: 5:00
 July 6, 1995
 2 days \$100

Reserved:
 Holiday Inn
 Mart Plaza
 Chicago, IL
 Check-in: 3:00P
 July 6, 1995
 Check-out: 11:00A
 July 7, 1995

Detailed Itinerary...

Message line

Status line

7/02/1995

Select Res.
Modify Search...
Cancel
Flight Details...
Fare Details...
?

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity Log

SABRE BargainFinder Plus Search Results

Reserved:
American 2
Depart: DFW
July 6, 1995
Arrive: ORD
July 6, 1995

Reserved:
Budget Re
ORD Airpo
Pick-up: 8:30
July 6, 1995
Drop-off: 5:00
July 6, 1995
2 days \$100

Reserved:
Holiday Inn
Mart Plaza
Chicago, IL
Check-in: 11:00A
July 6, 1995
Check-out: 11:00A
July 6, 1995

Detailed Itinerary...

Replace Flights Message

You are about to replace the Original Flights with the flights you have selected in BargainFinderPlus.

Do you still wish to replace the trips?

Yes No

button.

Comp	Fare	Class	Carrier	Flight	Depart	City	Arrive	City	Price
✓	✓	American	2224	7:00A	DFW	9:10A	ORD	460.00	460.00
✓	✓	American	2245	5:00P	ORD	7:30P	DFW	460.00	460.00
✓	✓	American	2326	7:30A	DFW	9:41A	ORD	460.00	460.00
✓	✓	American	2249	6:00P	ORD	8:28P	DFW	460.00	460.00
✓	✓	American	2220	6:00A	DFW	8:05A	ORD	460.00	460.00
✓	✓	American	2249	6:00P	ORD	8:28P	DFW	460.00	460.00

Select Res. Modify Search... Cancel Flight Details... Fare Details... ?

Message line


Status line


7/02/1995


Fig. 14R

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity Log

Reserved: 
American 2220
Depart: DFW 7:00A
July 6, 1995
Arrive: ORD 9:10A
July 6, 1995

Reserved: 
Budget Rental Car
ORD Airport
Pick-up: 9:10A
July 6, 1995
Drop-off: 5:00P
July 7, 1995
2 days \$109.94

Reserved: 
Holiday Inn
Mart Plaza
Chicago, IL
Check-in 5:00P
July 6, 1995
Check-out: 11:00A

Detailed Itinerary...

Message line

Status line

7/02/1995

1995

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sun	27			28	29	30	31	1	2	3	
Mon											
Tue											
Wed											
Thu											
Fri											
Sat											

374

376

Fig.14S

Fig.14T

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity

Reserved:
American 222
Depart: DFW 6
July 6, 199
Arrive: ORD 8
July 6, 199

Reserved:
Budget Rent
ORD Airport
Pick-up: 8:30
July 6, 199
Drop-off: 5:00
July 6, 199
2 days \$109.

Reserved:
Holiday Inn
Mart Plaza
Chicago, IL
Check-in 5:00
July 6, 199
Check-out: 1

Detailed time
Message line

Confirmation - Ticket Delivery

Choose a method for obtaining your ticket: 416

☐ Pick up ticket at Company Travel Agency
☐ Pick up ticket at Airline Counter
☒ Send ticket to person/location listed below

Pick-up or deliver by: Date 07/05/95 12
Time 5:00 PM

OK Cancel ?

Ticket to be received by:

Last Name Kelvin
First Name James P.
Company ACME Products
Address 123 Elm
Last Name Suite 123
City Irving
State TX Zip Code 75308
Phone 214-555-6100 Ext 3456

☒ Office
☐ Home
☐ Other
Clear Address

1995 Sat

2	3
9	10
16	17
23	24
30	1
7	8

414

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity

Reserved:
American 222
Depart: DFW 8
July 6, 199
Arrive: ORD 8
July 6, 199

Reserved:
Budget Rental
ORD Airport
Pick-up: 8:30
July 6, 199
Drop-off: 5:00
July 6, 199
2 days \$109.

Reserved:
Holiday Inn
Mart Plaza
Chicago, IL
Check-in 5:00
July 6, 199
Check-out: 11

Travel Itinerary for James P. Kelvin

Please verify the reservation information in the Trip Itinerary below:

James P. Kelvin
ACME Products, Inc.
123 Elm, Suite 123
Irving, TX 75038
214-555-6100 Ext. 345

This reservation has been granted with your Corporate Credit Card number. Your airline ticket will be issued and delivered by 12:00 PM, September 10, by ABC Travel. If you have any questions contact ABC Travel at 1-800-555-5678.

Airfare:	\$ 499.90	Round-trip
Car:	\$ 109.94*	2 days
Hotel:	\$ 109.00*	1 night
Total Trip Cost:	\$ 717.94	

* Price estimates determined by nightly or daily rate times the number of nights or days. Price does not include taxes, fees or other incidentals.

Airfare Details: This is a Restricted Air Fare. Penalties may apply to charges or cancellation.

Reserved: American Airlines Flight 2220 Coach Class

Close **Approval...** **Cancel Res...** **Comment...** **Print...** **Save As...** **?**

Detailed Itinerary...

Message line

Status line

7/02/1995

Fig. 14U

418

Fig.14V

SABRE Travel Planner
 Reservation Edit View Request Options Help

420

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Trip Activity Log

Reserved: American 2224
 Depart: DFW 7:00A
 July 6, 1995
 Arrive: ORD 9:10A
 July 6, 1995

Reserved: Budget Rental Car
 ORD Airport
 Pick-up: 9:10A
 July 6, 1995
 Drop-off: 5:00P
 July 7, 1995
 2 days \$109.94

Reserved: Holiday Inn
 Mart Plaza
 Chicago, IL
 Check-in 5:00P
 July 6, 1995
 Check-out: 11:00A

Detailed Itinerary...

Message line

Status line

7/02/1995

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Fig. 14W

SABRE Travel Planner
 Reservation Edit View Request Options Help

Trip Activity Log

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Finish Reservation

Do you wish to finish your reservation and send it on to your travel agency for processing?

Yes No

Reserved:
 American 222
 Depart: DFW 6
 July 6, 1995
 Arrive: ORD 8
 July 6, 1995

Reserved:
 Budget Rental
 ORD Airport
 Pick-up: 8:30A
 July 6, 1995
 Drop-off: 5:00P
 July 6, 1995
 2 days \$109.94

Reserved:
 Holiday Inn
 Mart Plaza
 Chicago, IL
 Check-in 5:00P
 July 6, 1995
 Check-out: 11:00A

Detailed Itinerary...

Message line

Status line


7/02/1995


hu	Fri	Sat
1	2	3
8	9	10
15	16	17
22	23	24
29	30	1
6	7	8


Fig. 14X

SABRE Travel Planner
Reservation Edit View Request Options Help

Trip Activity Log

Reserved: 
American 2220
Depart: DFW 7:00A
July 6, 1995
Arrive: ORD 9:10A
July 6, 1995

Reserved: 
Budget Rental Car
ORD Airport
Pick-up: 9:10A
July 6, 1995
Drop-off: 5:00P
July 7, 1995
2 days \$109.94

Reserved: 
Holiday Inn
Mart Plaza
Chicago, IL
Check-in 5:00P
July 6, 1995
Check-out: 11:00A

Detailed Itinerary ...

Message line

Status line

7/02/1995

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	1995
Sun	Mon	Tue	Wed	Thu	Fri	Sat						
27	28	29	30	1	2	3						
4	5	6	7	8	9	10						
11	12	13	14	15	16	17						
18	19	20	21	22	23	24						
25	26	27	28	29	30	1						
2	3	4	5	6	7	8						

Fig.15A

SABRE Travel Planner

Reservation Edit View Request Options Help

Trip Activity Log

426

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sun	27			28	29	30	1	2	3		
Mon		4	5	6	7	8	9	10			
Tue		11	12	13	14	15	16	17			
Wed		18	19	20	21	22	23	24			
Thu		25	26	27	28	29	30	1			
Fri		2	3	4	5	6	7	8			
Sat											

Detailed Itinerary...

Message line

Status line

7/02/1995

Fig.15B

SABRE Travel Planner

Reservation Edit View Request Options Help

Trip Activity Log

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Fri Sat

1	2	3
8	9	10
15	16	17
22	23	24
29	30	1
6	7	8

Frequent Trip

Please select a Frequent Trip from the list so stored trips below.

Frequent Trips:

- Monthly Chicago Trip
- Monthly Chicago Trip**
- Sales Meeting - Chicago

Select Trip

Cancel

Details...

?

Detailed Itinerary...

Message line

Status line

7/02/1995

Fig.15C

SABRE Travel Planner
Reservation Edit View Request Options Help

Frequent Trip Details

Frequent Trip: Monthly Chicago Trip

432

American Airlines Flight 2224
Depart: Dallas, TX - DFW Intl. Arpt. at 7:00AM
Arrive: Chicago, IL - O'Hare Intl. Arpt. at 9:10AM

Budget Rental Car
Pick-up: Chicago, IL - O'Hare Intl. Arpt. at 9:10AM
Drop-off: Chicago, IL - O'Hare Intl. Arpt. at 5:00PM
2-day rental

Holiday Inn - Mart Plaza, Chicago, IL
Check In: 5:00PM
1-night stay

American Airlines Flight 2245
Depart: Chicago, IL - O'Hare Intl. Arpt. at 5:00PM
Arrive: Dallas, TX - DFW Intl. Arpt. at 7:30PM

Trip Activity

Detailed Itinerary

Message line

Status line

7/02/1995

1995		Sat
2	3	
9	10	
16	17	
23	24	
30	1	
7	8	

434

52

Fig.15E

SABRE Travel Planner

Reservation Edit View Request Options Help

Trip Activity Log

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Frequent Trip Dates

Repeating Frequent Trip:
Monthly Chicago Trip

On what date will new travel begin?
07/06/95

Reserve...
Request Only
Cancel

?

Fri		Sat
1	2	3
8	9	10
15	16	17
22	23	24
29	30	1
6	7	8

Detailed Itinerary...

Message line

Status line

7/02/1995

54

Fig.15G

SABRE Travel Planner
 Reservation Edit View Request Options Help

Trip Activity Log

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Reserved: American 222
 Depart:DFW 6
 July 6,1995
 Arrive:ORD 8:
 July 6,1995

Reserved: Budget Renta
 ORD Airport
 Pick-up: 8:30/
 July 6,1995
 Drop-off: 5:00
 July 6,1995
 2 days \$109.94

Reserved: Holiday Inn
 Mart Plaza
 Chicago,IL
 Check-In 5:00P
 July 6,1995
 Check-out: 11:00A

Detailed Itinerary...

Message line

Status line 7/02/1995

Frequent Trip Completed

The segments in the Frequent Trip
 Monthly Chicago Trip
 have been reserved starting
 with the date
 July 6, 1995.

Do you wish to finish your reservation and
 send it on to your travel agency for processing?

Yes **No**

	Fri	Sat
1	2	3
8	9	10
15	16	17
22	23	24
29	30	1
6	7	8

Fig. 16A

450

452

SABRE Expense Report

File

Options

Help

Expense Report Log

In Work...
8/11-8/14

1995

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Calculate the total expenditure

Status: 9/6/1995 10:57 am

456

454

Expense Data Range for James P. Kelvin

Enter Expense Report Header information below.

Purpose Trip/Expense: New product discussion-Chicago

Start Date: 08/11/95

End Date: 08/14/95

Default Project: CC000

OK Cancel ?

458

460

Fig. 16B

Air Item Detail

Charges

Ticket Price: \$812.50

Currency: USD-US Dollar

Tax Amount: \$0.00

Amount in USD: \$812.50

Ticket #: 744222104

Amount Type: R-Reimbursable

Explanation

Origination City	Destination City	Class of Service	Carrier	Date	Upgrade Fee
DFW-Dallas/Ft.	ORD-Chicago	Y-Coach	AA-American	8/11/95	\$ 0.00
ORD-Chicago	DFW-Dallas/Ft.	Y-Coach	AA-American	8/14/95	\$ 0.00
*					

Fig.16C

Car Item Detail

Car Rental

Rental City Code:

Rental Chain Name:

Pickup Date:

Drop off Date:

Car Receipt

Receipt Total:

Currency:

☐ Daily Detail
☒ Total

Amount Type:

☐ Value Added Tax

Date	Amount	Tax	Amount Type	Description
08/11/95			R-Reimbursable	Compact Car
*				

Sales Tax: \$0.00 Company Paid: \$0.00

Total Amount: \$43.52 Non-reimbursable: \$0.00

Amount in USD: \$43.52 Reimbursable: \$43.52

Reminder...Car insurance is not a reimbursable item.

Fig. 16D

476

Hotel Item Detail

Hotel Booking

Hotel City Code:

Hotel Name:

Hotel Zip:

Chain Code:

Check-in Date:

Check-out Date:

Hotel Receipt

Receipt Total:

Currency:

☒ Daily Detail
☐ Total

Amount Type:

☐ Value Added Tax

Date	Amount	Amount Type	Description
08/11/95	\$85.00	\$6.74 R-Reimbursable	Single with Bath
08/11/95	\$85.00	\$6.74 N-Non-reimbursable	Single with Bath
*			

Sales Tax: \$13.48 Company Paid: \$0.00

Total Amount: \$183.48 Non-reimbursable: \$91.74

Amount In USD: \$183.48 Reimbursable: \$91.74

478

Fig.16E

480

Dates

Start Date: 08/11/95

Stop Date: 08/14/95

Reimbursements Methods

☐ Actual Receipts

☒ Per Diem

Rate Type: Company

Meal City: ORD-Chicago O'Hare

Date	Meal	City	Amount	Tax	Amount Type	Currency
08/11/95	Daily	ORD-Chicago	\$38.00	\$0.00	R-Reimbursable	USD-1
08/12/95	Daily	ORD-Chicago	\$38.00	\$0.00	R-Reimbursable	USD-1
08/13/95	Daily	ORD-Chicago	\$38.00	\$0.00	R-Reimbursable	USD-1

Sales Tax: \$0.00 **Company Paid:** \$0.00

Receipts Total: \$68.00 **Non-reimbursable:** \$0.00

Amount in USD: \$68.00 **Reimbursable:** \$68.00

Remove Row

OK Cancel ?

482

Fig. 16F

Business Entertainment Detail

Entertainment Detail

Purpose of Entertainment:

Start Date: Place: Topic:

Stop Date: Receipt Total: Currency:

☐ Value Added Tax

Name	Company	Affiliation
Susan Clark	Sanderson Plastics, Inc.	V.P. Marketing
Roger Sanderson, Jr.	Sanderson Plastics, Inc.	President

Date	Amount	Tax	Amount Type	Ent. Type	Description
08/11/95	\$59.00	\$4.87	R-Reimbursable	Meal	

Sales Tax: \$0.00 Company Paid: \$0.00

Total Amount: \$63.87 Non-reimbursable: \$0.00

Amount in USD: \$63.87 Reimbursable: \$963.87

Repeat Row Remove Row OK Cancel ?

Fig.16G

486

Fig.16H

488

SABRE Expense Report

1995

File Options Help

Expense Report Log

In Work...
8/11-8/14

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

1995

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Calculate the total expenditure

Status:

9/6/1995 10:57 am

454

492

Fig. 161

Fig.16J

494
454

File

Options

Help

SABRE Expense Report

1995

▼

Expense Report Log

▼

In Work...
8/11-8/14

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	1995
Sun	30	Mon	31	Tue	1	2	3	4	5	Fri	Sat	
6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31
3	4	5	6	7	8	9	10	11	12	13	14	15

Calculate the total expenditure

Status:

9/6/1995

10:57 am

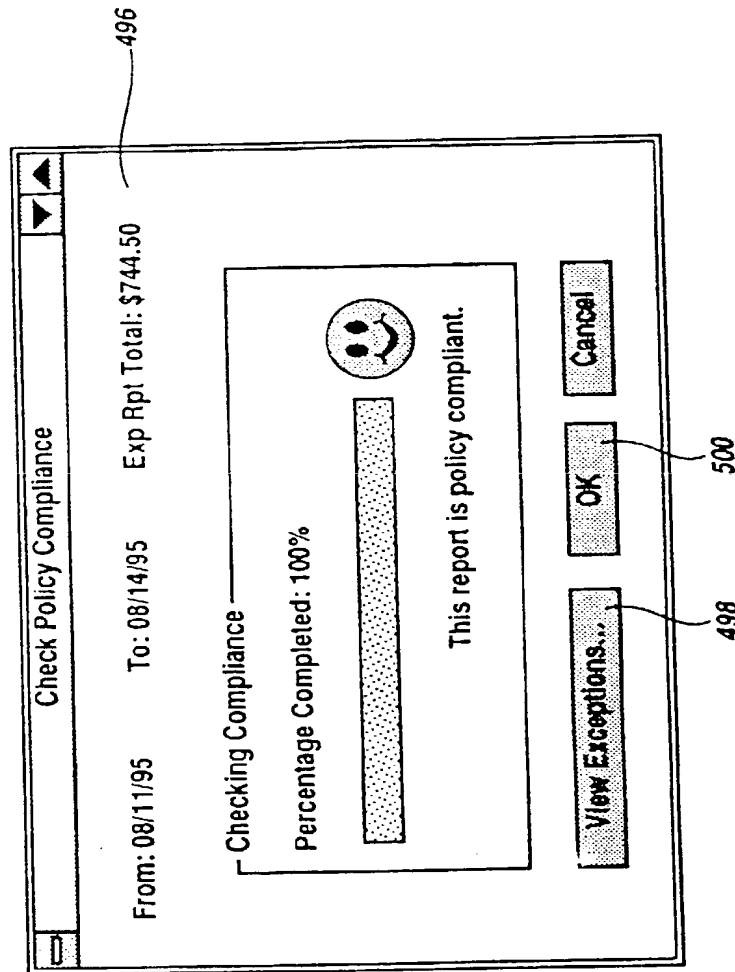


Fig. 16K

502

Expense Report for James P. Kelvin

File Edit View Options Help

Employee #: 5051232 From: 08/11/95 Through: 08/14/95 Exp. Rpt.#

Date	Expense Type	City	Amount	Exp Alloc	Amt Type	Receipt Alloc.	Approv Status
08/11/95	Air	DFW-Dallas/Ft. Worth	\$432.00		C		
08/11/95	Car	ORD-Chicago O'Hare	\$43.52		R		
08/11/95	Hotel	ORD-Chicago O'Hare	\$103.48		R		
08/11/95	Meal	ORD-Chicago O'Hare	\$68.00		R		
08/11/95	Entertain	ORD-Chicago O'Hare	\$63.87		R		
*							

Expense Report Total: \$790.87

Fig.16L

Fig.16M

SABRE Expense Report

File Options Help

Expense Report Log

In Work...
8/11-8/14

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1995

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Calculate the total expenditure

Status: 9/6/1995 10:57 am

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 762 306 A3

(12)

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DFW Airport, Texas 75261-9616 (US)

(72) Inventors:
• Vance, Arlene M.
Flower Mound, Texas 75028 (US)

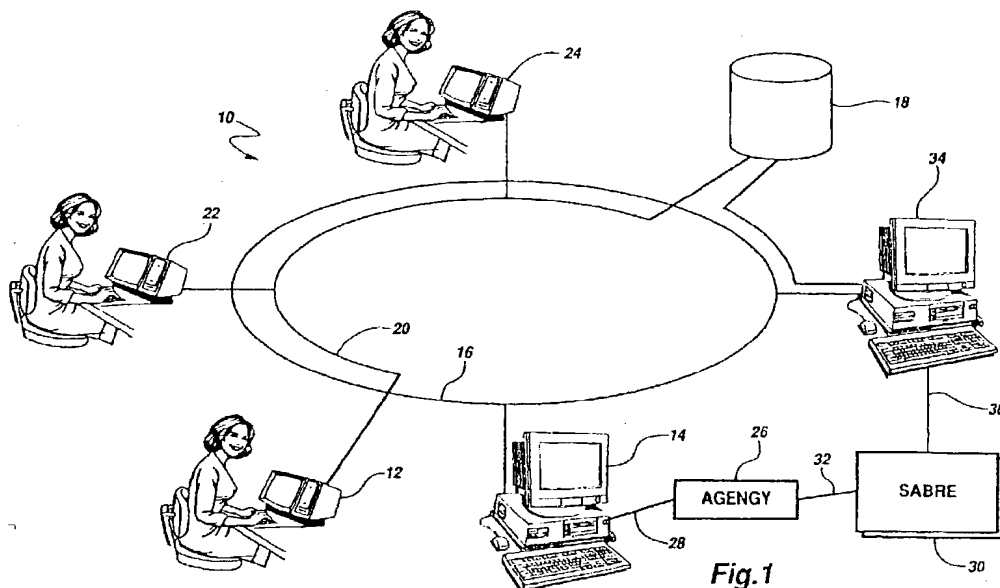
- Balch, Kerry
Dallas, Texas 75081 (US)
- Vochatzer, Karl
Flower Mound, Texas 75028 (US)
- Sawtell, Cynthia
Arlington, Texas 76011 (US)
- Williams, Sherry
Dallas, Texas 75230 (US)

(74) Representative: Spall, Christopher John
BARKER, BRETTELL & DUNCAN
138 Hagley Road
Edgbaston Birmingham B16 9PW (GB)

(54) System for corporate travel planning and management

(57) A system for corporate travel planning, expense reporting and travel management comprises a computerised reservation system (30), a relational database server computer (18) adapted to be linked to the reservation system (30) and a travel planning, expense

reporting and travel management system (38) resident on a personal computer (22) and providing a graphical user interface for communication between a user of the personal computer, the system (38) and the relational database server (18).



EP 0 762 306 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 96 30 6476

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Y	US 5 253 166 A (DETTELBACH ET AL) * the whole document *	1-19	G06F17/60
Y	EP 0 660 251 A (AMERICAN AIRLINES INC.) * the whole document *	1-19	
A	WO 93 10502 A (GARBACK) * the whole document *	1-19	
A	WO 89 07798 A (SYSTEMONE HOLDINGS INC.) * the whole document *	1-19	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G06F
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 28 October 1997	Examiner Nicholls, J
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03 82 (P04C01)